Valley Junior College

Catalog '52-'53

• los angeles
• valley junior college

• general catalog
• courses of study
• 1952 - 1953

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13161 burbank boulevard
van nuys, california

PUNCTUATION
FRENCH GRAMMAR
GENERAL PSYCHOLOGY
SOCIOLOGY
PHILOSOPHY
AMERICAN GOVERNMENT
UNITED STATES
ZOOLOGY
BACTERIOLOGY
VALLEY COLLEGE
VALLEY COLLEGE

SO YOU ARE GOING TO COLLEGE!

Throughout life the former college student remembers college friendships, school spirit, instructor personalities, the struggle to learn and master knowledge, and the fun and pleasure of it. All of these are here for you at Valley.

Our college is friendly; standards are high; study and regular attendance are required.

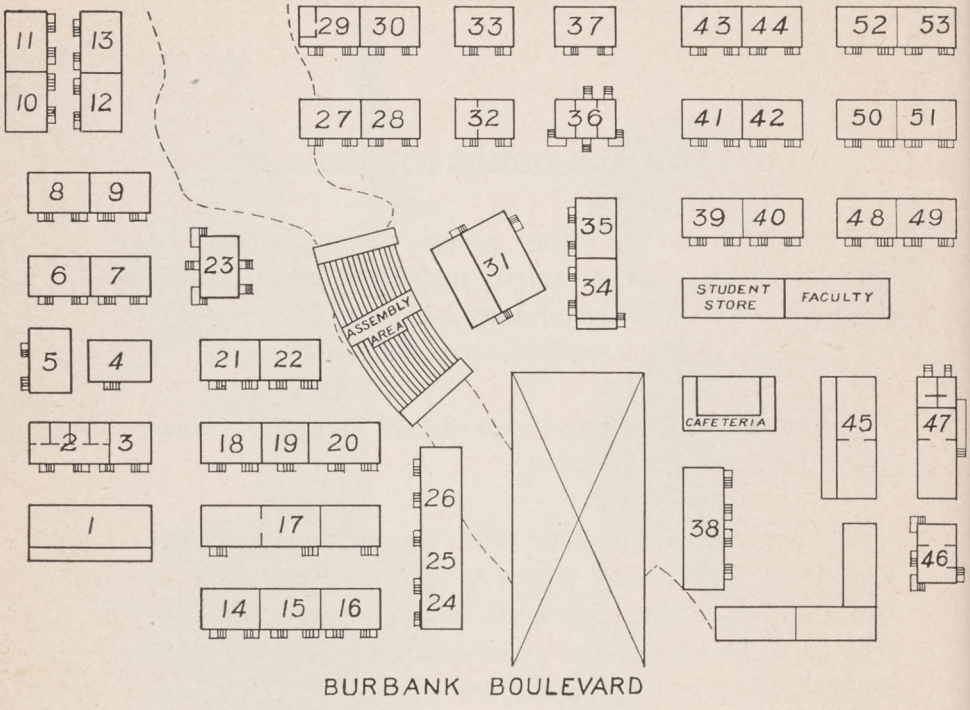
In college you are on your own. We realize that the experience of being in college is new to you. You will want advice and direction. College life is personal at Valley. Help is here for you no matter what your problem. We sincerely welcome and greet you, and we want to know you.

For the administrators, I remain

The Director,

V. Kersey

VIERLING KERSEY



LOCATION

The Los Angeles Valley Junior College is located at 13161 Burbank Boulevard, Van Nuys, California.

The campus of Valley College is made up of 145 acres bounded on the north by Oxnard Blvd., on the east by Coldwater Canyon Blvd., on the south by Burbank Blvd., and on the west by Fulton Avenue.

This site is near the center of San Fernando Valley and is easily accessible by automobile or public transportation. Car pools are arranged for students having transportation difficulties.

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MEMBERS OF BOARD OF EDUCATION

Mr. Paul Burke
Mrs. Ruth C. Cole
Mr. Arthur F. Gardner
Mr. Harry H. Hillman
Mr. H. W. Kingsley
Mrs. Edith K. Stafford
Dr. Hugh C. Willett

SUPERINTENDENT OF SCHOOLS

Alexander J. Stoddard

ASSOCIATE SUPERINTENDENT

Division of Extension and Higher Education

Howard A. Campion

ASSISTANT SUPERINTENDENT

Division of Extension and Higher Education

Edith M. Clark

OFFICERS OF ADMINISTRATION

Director ..... Vierling Kersey
Dean of Student Activities ..... Mrs. Nena Royer
Dean of Instruction ..... Walter Coultas
Assistant Dean ..... William J. McNelis

FACULTY

NAMES	CAME TO VALLEY	FIELDS OF SERVICE
Adams, June Marie	Fall, 1949	*Librarian*
Ball, Mary Ellen	Fall, 1951	*Librarian*
Beck, Harry Edward	Fall, 1949	*Economics*
Bernstein, Sylvain	Fall, 1951	*English*
Bloomberg, Blanche Ruth	Fall, 1949	*English*
Braun, Irwin Harold	Spring, 1950	*English*
Brooks, Ronald Dale	Fall, 1950	*Secretarial Science*
Bruick, Mary M. R. (Mrs.)	Spring, 1950	*Placement*
Burnett, Gail Allen	Spring, 1952	*English*
Butcher, Bessie E.	Fall, 1950	*Chemistry*
Caligiuri, Albert M.	Fall, 1949	*Music*
Clark, Edward Hawthorne	Fall, 1950	*Physics*
Clarke, Philip Seymour	Fall, 1949	*Mathematics*
Cochanides, Frances	Spring, 1950	*Radio Arts*
Dale, Kermit	Fall, 1949	*Mathematics*
Davis, Allen Harvuot	Fall, 1951	*Secretarial Science*
Davis, Bob Edward	Fall, 1949	*Theater Arts*
Davis, Esther Ritter (Mrs.)	Fall, 1949	*Journalism*
Dodson, James Lingle	Fall, 1949	*History*
Entwistle, Milton Ross	Spring 1952	*Technical Illustration*
Evans, Elmer Berlin	Spring, 1951	*Secretarial Science*
Fay, Gordon Shaw	Fall, 1951	*Engineering*
Goody, George Henry	Fall, 1951	*Psychology*
Harvey, Robert Evans	Spring, 1951	*Police Science*
Hawkinson, William Alexander	Fall, 1950	*Mathematics*
Hays, William D.	Spring, 1952	*Engineering*
Howell, Parker McClure	Fall, 1950	*Engineering*
Hunt, Albert	Fall, 1951	*History, Physical Education*
Jenks, Wilford Everett	Fall, 1950	*English*
Johnson, Ernest Y.	Fall, 1949	*Physical Education*
Keller, Allan Charles	Fall, 1950	*Botany, Zoology*
Kent, Arnold Irving	Fall, 1951	*Engineering*
Kessler, Sydney	Spring, 1950	*History, Speech*
Kifer, Jack Rudolf	Fall, 1951	*Mathematics*
Knox, Richard Allen	Fall, 1950	*Music*
Korn, Noel	Fall, 1950	*Anthropology, English*
Kuljian, Ernest Sam	Spring, 1951	*Chemistry*
Locks, Charles Saul	Spring, 1950	*Psychology*
Mann, Charles Wilden	Spring, 1950	*Physical Education*
Marsh, Charles Stewart	Fall, 1950	*Counselor*
McFarland, Ben F.	Fall, 1949	*Physical Education*

Michky, George Leroy	Fall, 1951	*Aeronautical Science*
Mindlin, Helen Elsie	Fall, 1949	*Physical Education*
Mitchell, James Mahlon	Fall, 1951	*Aeronautical Science*
Mitchem, Paul Henry	Fall, 1950	*Accounting*
Morley, Myles John	Fall, 1951	*Economics*
Munns, Virginia Gate	Fall, 1951	*Secretarial Science*
Nassi, Robert Joseph	Fall, 1949	*Registrar*
Nelson, Charles Leland	Spring, 1951	*Police Science*
Nordmann, Joseph Behrens	Spring, 1950	*Chemistry*
Nutter, Earl Lloyd	Fall, 1951	*Engineering*
Nystrom, Richard Kent	Fall, 1950	*Art*
Olson, Velma Jewett (Mrs.)	Fall, 1949	*Secretarial Science*
Paolino, Leonidas Homer	Spring, 1950	*Biology, Bacteriology*
Paolino, Virgil America	Fall, 1950	*History*
Penery, John Ellsworth, Jr.	Fall, 1949	*Nursery Education*
Pierce, Margaret Chisholm	Fall, 1951	*Secretarial Science*
Pons, Jeanne Eileen	Spring, 1950	*Physical Education*
Prettyman, George A.	Fall, 1951	*Police Science*
Prismon, Donald R.	Fall, 1949	*History*
Puig, Joseph Manuel	Fall, 1950	*Spanish*
Riswold, Arthur F.	Spring, 1952	*Technical Illustration*
Schellang, Robert Lewis	Spring, 1952	*Aeronautical Science*
Schreiter, Herbert Gustav	Fall, 1950	*Engineering*
Scott, Marie Theodora	Fall, 1949	*Art*
Slosson, James E.	Fall, 1950	*Geology*
Stefflre, Buford Louis	Spring, 1951	*English*
Stoddard, Clifford Paul	Fall, 1952	*Aeronautical Science*
Tatum, John Giboney	Fall, 1949	*French*
Vactor, Eleanor Conner	Fall, 1950	*English*
Villa, Angelo Sanchez	Fall, 1950	*Spanish*
Wood, Mary Terrill (Mrs.)	Fall, 1949	*Secretarial Science*
Woolfan, Howard Leroy	Spring, 1950	*English, Coordinator Extended Day*
Wynns, John Givens	Spring, 1950	*Business*

CALENDAR 1952 - 1953

FALL SEMESTER

June 23 - September 10	*Counseling and pre-programing of FORMER and NEW STUDENTS for the Fall semester
September 13, Saturday 8:00 p.m.	Inter-squad Football Game, Van Nuys High School
September 15, Monday 8:30 a.m. - 4:00 p.m.	Registration of FORMER STUDENTS who have been pre-programed and have a "Preference Registration Card"
7:00 p.m. - 10:00 p.m.	Registration of Extended Day Students
September 16, Tuesday 8:30 a.m. - 4:00 p.m.	Registration of NEW STUDENTS who have been pre-programmed and have a "Preference Registration Card"
8:30 a.m. - 2:00 p.m.	College Placement Examination in Rooms 34, 35
7:00 p.m. - 10:00 p.m.	Continued Registration of Extended Day Students
September 17, Wednesday 8:30 a.m. - 4:00 p.m.	Open Registration. All students who do not have a "Preference Registration Card"
8:30 a.m. - 2:00 p.m.	College Placement Examination in Rooms 34, 35
7:30 p.m. - 10:00 p.m.	Continued Registration of Extended Day Students
September 18, Thursday	
8:00 a.m.	Instruction begins
10:00 a.m.	"MONARCH DAY"
September 26, Friday	Last day for registration Last day for change of program
October 10, Friday	Last day to file a petition for graduation in February, 1953
October 20, Monday	Students' Progress Reports
November 7, Friday	Last day to drop classes without penalty of "F" grade
November 11, Tuesday	Armistice Day (Legal Holiday)
November 27, 28 Thursday and Friday	Thanksgiving Vacation
December 22 - January 2	Christmas Vacation
January 22 - January 28	Final Examinations for Fall Semester
January 30, Friday	Semester ends.

*The college offices are open every business day of the calendar year, 8 a.m. to 4:30 p.m. Administrators are always available.

CALENDAR 1952 - 1953

SPRING SEMESTER

January 5 - January 30	*Counseling and pre-registration of FORMER and NEW STUDENTS
February 2, Monday	Registration begins
8:30 a.m. - 4:00 p.m.	Registration of Former Students who have been pre-programed and have a "Preference Registration Card"
7:00 p.m. - 10:00 p.m.	Registration of Extended Day Students
February 3, Tuesday	Registration continues
8:00 a.m. - 4:00 p.m.	Registration of NEW STUDENTS who have been pre-programed and have a "Preference Registration Card"
8:30 a.m. - 2:00 p.m.	College Placement Examination in Rooms 34, 35
7:00 p.m. - 10:00 p.m.	Continued Registration of Extended Day Students
February 4, Wednesday	Registration continues
8:30 a.m. - 4:00 p.m.	Open registration. All students who do not have a "Preference Registration Card"
8:30 a.m. - 2:00 p.m.	College Placement Examination in Rooms 34, 35
7:00 p.m. - 10:00 p.m.	Continued Registration of Extended Day Students
February 5, Thursday	
8:00 a.m.	Instruction begins
10:00 a.m.	"MONARCH DAY"
February 12, Thursday	Lincoln's Birthday (Legal Holiday)
February 13, Friday	Last day for registration Last day for change of program
February 23, Monday	Washington's Birthday (Legal Holiday)
February 27, Friday	Last day to file a petition for graduation in June, 1953
March 6, Friday	Students' Progress Reports
March 27, Friday	Last day to drop classes without penalty of "F" grade
March 30 - April 3	Easter vacation
April 14, Tuesday	Mid-term grades due
June 11, Thursday	Final Examinations for Spring Semester
June 18, Thursday	Commencement Exercises
June 19, Friday	Semester ends.

*Counseling, guidance, advisement testing, placement services, and conference appointments are subject to arrangement by call.

PART I
GENERAL INFORMATION

LOS ANGELES
VALLEY JUNIOR COLLEGE
13161 BURBANK BLVD.
VAN NUYS CALIFORNIA

VALLEY JUNIOR COLLEGE

A STATEMENT OF AIMS

In June 1949 the Los Angeles Board of Education established in the San Fernando Valley a public junior college offering post-high school educational opportunities to the students of the area. Since that time the Valley Junior College has grown rapidly, keeping pace with the developing San Fernando Valley. It is meeting the cultural, business, and industrial needs of a dynamic community.

Valley College is a community college designed to offer educational opportunities to meet the demands of a technically and culturally advanced community. The College curriculum is adequate to satisfy these requirements and flexible enough to change and develop along with the San Fernando Valley.

In any dynamic process, whether that of developing a new community or a new college, there necessarily must be continuing study and continuing revision of aims. By a constant search for more useful educational processes and by provision of further educational opportunities, Valley College will achieve its objective—to serve in every way possible the community of which it is an integral part.

PURPOSE

The college provides educational orientation directed to the end that students become vocationally mature, economically self-sufficient, socially adaptable, capable of mastering their own problems, civically responsible, and better equipped to serve their country.

To accomplish these goals Valley Junior College offers:

1. A special program for those young people who can profit most by two years or less of training to gain a better understanding of the world in which they live, and to acquire specific skills that lead to employment in semi-professional fields.

2. General education for those students seeking two years of cultural and educational development preparatory to the acceptance of responsibilities in employment, in the home, and in the community.

3. Pre-professional curricula parallel to the lower division courses of the State University and other accredited colleges for those who are planning to continue their work at upper division levels.*

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*Those students in the pre-professional curricula who have come to our Junior College with deficiencies in either subjects or grades required for University entrance are given the opportunity to remove these deficiencies and qualify for entrance to University courses.

WHY ATTEND LOS ANGELES VALLEY JUNIOR COLLEGE

Students at Valley give these reasons for attending Valley College:

"With two years of training at Valley, jobs of responsibility in business, trades, industry, civil service, merchandising, clerical work, police work and many other semi-professional fields are open to me."

"Valley College brings inexpensive higher education to me. Living at home while commuting to college gives me many opportunities for part-time jobs."

"I can make up my school deficiencies and continue on to a four-year college."

"The armed forces have plenty of unskilled manpower to draw from. I want training that will help me to meet the rigid technical standards of modern military life. Furthermore if I maintain a good academic standing I may be permitted to complete my college education."

"I like the informal, friendly atmosphere that seems to abound at Valley."

"My instructors go out of their way to give me individual help when I run into difficulties."

"There is more opportunity for me to take an active part in student activities."

ACCREDITATION OF THE COLLEGE

Valley College is under the administration of the Los Angeles Board of Education and is authorized to give courses which parallel the first two years of the state university curricula and qualify a student for junior standing at the University of California at Los Angeles or Berkeley.

Los Angeles Valley Junior College is fully accredited under the regulations of the California State Department of Education and the Regents of the University of California.

FACILITIES OF THE VALLEY JUNIOR COLLEGE

CAMPUS

Valley College moved to its present site in September 1951. Buildings are not ostentatious, but with the addition of the men's and women's gymnasiums, now under construction, a complete college program is possible pending the erection of the permanent plant.

Included among the facilities are the outdoor theater, a central staging unit, a radio and speech studio, science laboratories, library, an outdoor cafeteria, a student union, and numerous classrooms.

The athletic facilities include men's and women's gymnasiums, tennis courts, track, baseball field and practice fields. Parking lots accommodate approximately 1000 cars.

EXTENDED DAY PROGRAM

Valley Junior College offers a comprehensive schedule of evening classes. The entire program of offerings, day and evening, is unified under the same administration and staff. Registration and instruction are harmonized in the day and extended day program in such a way that all work completed contributes to predetermined purposes.

Extended day classes meet from 7:00 p.m. to 10:00 p.m., Monday, Tuesday, Wednesday and Thursday. The maximum program of study is twelve (12) units.

The same standards of instruction and accomplishment are maintained for all courses. The student membership fee is $2.50 a semester. This is a customary charge.

SUMMER SESSION

Valley Junior College offers day and evening classes during the summer. The summer session is limited to six weeks and consequently work and study must be diligent and concentrated. Six (6) units constitute a maximum summer session program. Each student is expected to purchase a student membership card for $2.50.

VETERANS SPECIAL SERVICES

Training is offered under the provisions of Public Law 346 and Public Law 16 (Rehabilitation), and the California Veterans Educational Institute.

Under any of these plans, a minimum of 12 units is required for full subsistence. Repeated courses may not be counted as part of these units.

The Veterans' Advisor aids in matters pertaining to Letters of Eligibility, interruptions, lowering of unit-load, and all regulatory procedures.

All veterans are cautioned to take special care with regard to attendance requirements and, in the event of leaving the College, to comply with all rules and regulations in order not to lose their veteran's educational benefits.

All queries relating to veterans affairs should be directed to

Mr. Charles S. Marsh, Counselor

Mr. Robert J. Nassi, Registrar

Mr. Howard L. Woolfan, Extended Day

COUNSELING AND GUIDANCE

The total program at Valley Junior College is dedicated to the individual, thus committing the college to the strongest counseling and guidance program it is possible to offer. Every member of the staff seeks the opportunity to help the student and students are encouraged to take advantage of this opportunity.

The organized program of counseling and guidance is the responsibility of the Office of Admissions and Guidance. It is the primary function of this office to help the student work through and find a solution to any vocational, educational or personal problem confronting him.

Some of the specific services planned to assist the student in adjusting to college life are listed below:

College Placement Examination. Incoming first year students are requested to take the American Council on Education Psychological Exami-

nation for College Freshmen. This is a test of academic aptitude widely used in colleges and universities throughout the nation. The results of the examination are not used to determine entrance to college, but rather to help the student in educational and vocational planning. The examination takes about an hour and fifteen minutes to administer.

Pre-programing. Students are encouraged to make out their study programs before actual registration at the beginning of the semester. Incoming students meet with a counselor in Room 3 to be pre-programed. It is advantageous to have at this time a copy of the student's high school transcript, college transcript (if the student has attended another college before coming to Valley), and the results of the college placement examination.

Former students are assigned to an instructor-counselor for help in making out their study programs. The advantage of pre-programing is this: The student is assured of enrollment in desired classes and at desired hours.

Programing during Registration. For students who have not been pre-programed, counselors are on duty during registration to help in drawing up a study program.

Orientation Class. Incoming first-year students are requested to enroll in Psychology 10. This is a one-unit class set up with the aim of helping new students to make a successful adjustment to college. The course content includes a discussion of school regulations, campus activities, study habits, and vocational selection.

Progress Interviews. It is the desire of the faculty and administration to help students cope with their study problems and improve in their achievement. Students having study and scholarship difficulties are encouraged to meet with their instructors and counselors for progress interviews during the semester.

Aid with Study Problems. The English Department offers English Y classes in which there is stress on study habits and reading improvement. Tau Alpha Epsilon, national honorary scholarship society, sponsors a free student-tutoring service. Those students who need special help in a particular subject or subjects may avail themselves of the willing guidance of other students who are proficient in the subjects.

Vocational Testing and Counseling. The college seeks to help students in making a wise vocational selection. A program of vocational testing and counseling is carried on in the guidance office, Room 3. Vocational selection is stressed in Psychology 10 and Psychology 23.

Veterans' Counseling. Veterans are invited to go to Room 3 for help with problems involving their educational benefits under the law. It is the desire of the college to give all possible assistance to veterans.

ADVISEMENT SERVICE

The attention of students is called to the following announcement from the Los Angeles City Schools Advisement Service.

"Among the numerous specialized services at the disposal of the college is the Advisement Service of the Los Angeles City Schools. It offers the student an individualized nine to twelve-hour vocational or educational guidance service. This service consists of five to seven hours

of testing, two or three hours of interviewing, one to four hours of study in the center's vocational information library, and a final selection of three to give occupational or vocational areas which match your interests, abilities, capacities, and aptitudes.

"Advisement may cut down time of preparing for an adjusting to the career which you may wish to choose. It is an experience which may help to formulate clearly your long-range goals and objectives. By knowing yourself more adequately, you will be better able to take advantage of college offerings. This service is available without charge to anyone enrolled in the Los Angeles City Schools' day or evening instructional programs.

"If you wish this service, you may arrange for a referral through the college counseling office. The center is located on the campus of Belmont High School on the corner of Beverly Boulevard and Loma Drive.

"The official address is 124 Loma Drive, Los Angeles 26."

Valley College cooperates with this service. There are many advantages for students who consult this office.

PLACEMENT AND EMPLOYMENT SERVICE

Every effort is made through the placement service to find a satisfactory solution for the earning and vocational problems which the student may encounter during his college career. An effort is made to place in part-time employment all those students who choose to work while continuing their education. Students who plan to enter upon a career immediately upon graduation from Junior College will be given assistance in finding positions which are related to their subject majors and abilities. In addition to maintaining the regular facilities of an employment office, the Placement Bureau operates on the principle that one of its chief functions is to assist the student to become a competent individual in the matter of choosing and seeking employment as well as in obtaining training for a specific career. In conjunction with the other counseling services, the study of fields of work will aid the student to make a satisfactory choice in regard to his own vocational training.

All courses of study which include practical training leading to employment upon graduation are considered adequate only when those who satisfactorily complete the courses are actually placed in employment. The College also supports the policy of having students in practical subjects enter employment as a learning experience along with college study.

The employers in the community are extremely cooperative in assisting the college to reach the objectives outlined by the counseling services. Students are urged to use the facilities of the Placement Bureau.

HEALTH SERVICE

Los Angeles Valley Junior College provides facilities for medical examination for each student. Health examinations are available as part of the registration procedure. First aid, health information, and health counseling are available during the hours the Health Service Office is open.

All athletes are required to take a medical examination immediately following their registration to enter a competitive sport.

GE

ASSOCIATED STUDENTS ORGANIZATION

All regularly enrolled students are members of the Associated Students Organization. It is the duty of the Associated Students Organization to plan, authorize, and finance student activities, including athletics, publications, social events, and assembly programs. These functions are partially financed with money derived from the sale of Associated Student membership cards.

The business of the Associated Students Organization is carried on by the Student Council, composed of the following elected officers: President, Vice President, Secretary, Treasurer, the Presidents of the Associated Women Students and the Associated Men Students. A faculty advisor and the Dean of Student Activities are ex-officio participants in all student government and student council planning. Officers are elected each semester.

All finances of the student body organization are expended in accord with strictly controlled budgetary procedure and practice. The college bursar is the fiscal agent for the college and acts for the Board of Education. His office audits all accounts.

STUDENT ACTIVITIES

A very important aspect of every college student's educational experience is the activity program in which he participates. Valley College has made every effort to develop a wide and varied schedule of activities that will contribute to the personal and social growth of every student. Service to the College and to the Community has been the foundation upon which all activities have been built.

The Student Activity program is centered in the office of the Dean of Student Activities. Receptions, club meetings, dances, picnics, and many other social events are coordinated with the scholastic program so as to give all students an opportunity to participate in a variety of social activities leading to a well-rounded college experience.

Some traditional events of the college year in which all share in the fun and spirit of the occasion are:

"Monarch Day," held twice a year during the first week of each semester. This is a day of fellowship when all former students welcome every new student with hospitality, friendliness and pleasure.

"Homecoming" is a day in the fall of the year preceding a game. This is a day of parade of floats sponsored by and made by campus clubs, organizations and groups. A festive occasion and dance close the evening. This is a great community event.

A Thanksgiving "Harvest Festival" is another annual occasion for all to share. Its name describes its character.

A Christmas program ushers in the colorful Christmas time. This is a great event and never fails to involve and please all.

A "Spring Fiesta" is celebrated annually. This takes on a Spanish and French air.

Our "Children's Book Festival" is an occasion when for an entire week all Southern Californians find fascinating joy in sharing an opportunity to meet the new in literature, color, decoration and story for children.

Other events recognizing our active alumni association and such holidays as Hallowe'en, patriotic days, Easter season, picnic time, beach weather and the like are part of the spirit of living with associates at Valley.

HONOR SOCIETIES

Well-rounded development of students is of vital interest. The administration and faculty believe the formost concern of an educational institution is fine scholarship. For this reason Valley has encouraged the organization of honor societies whenever students evince a genuine interest.

Active in various fields on the campus are the following national honor fraternities: Alpha Mu Gamma (foreign language), Gamma Psi Upsilon (journalism), Alpha Pi Epsilon (secretarial science), Delta Psi Omega (theater arts), and Tau Alpha Epison (scholastic honors). "Les Savants" is a local scholastic honor society. In addition to stimulating high scholarship standards, these societies offer a common meeting ground for students with like interests. They sponsor a wide range of campus activities and bring to the College noted speakers and exhibits.

CLUBS

Students at Valley Junior College are urged to participate in extra-curricular student activities. To provide such opportunity, many clubs and societies have been organized. Each organization is formed on the common foundation of interest to the members and service to the College. Activities of these groups include regular meetings, lectures, forums, discussions of problems, field trips, assembly presentations to the entire student body, unusual films of interest, and social events.

Among these Clubs are the following: Anthropology, Artists' Guild, Chess, Coronets, Engineers, Fishermen, Circle K, Ice Skating, Les Societaires du Lapin Agile, Lettermen's, Los Amigos del Valle, Monarchettes, Newman, Phi Alpha Sigma, Police, Psychology, Sigma Alpha Phi, Ski, Slide Rule, and Women's Athletic Association.

ATHLETIC PROGRAM

Valley College is a member of the Metropolitan Conference and competes in all athletic events sponsored by the Conference. The conference is composed of:

Bakersfield College

East Los Angeles Junior College

El Camino College

Long Beach City College

Los Angeles Harbor Junior College

Los Angeles Valley Junior College

San Diego Junior College

Santa Monica City College

Valley made an enviable record in Junior College athletics the past year, winning the Track, Field, and Tennis Championships, and placing second in the state Junior College meet. The year 1952-53 promises to be more successful.

FOOTBALL SCHEDULE

Saturday, September 13	Inter-squad Game at Van Nuys High School
Thursday, September 18	Glendale College at Glendale
Saturday, September 27	Taft Junior College at Taft
Saturday, October 4	Santa Monica City College at Santa Monica
Friday, October 10	East Los Angeles Junior College at E.L.A. J.C.
Saturday*, October 18*	Los Angeles Harbor Junior College at Van Nuys H.S.*
Saturday, November 1	Long Beach City College at Long Beach
Saturday, November 8	Bakersfield College at Bakersfield
Saturday, November 15	San Diego Junior College at Van Nuys H.S.
Friday, November 21	El Camino Junior College at El Camino J.C.
Saturday, November 29	Utah Branch Agricultural College at Van Nuys H.S.

*—Homecoming Game

Valley College plays its home games at Van Nuys High School. All games start at 8:00 p.m.

ADMISSION REQUIREMENTS

ELIGIBILITY FOR ADMISSION

The following persons will be admitted to the Los Angeles Valley Junior College:

1. Persons holding diplomas from accredited senior or four-year high schools.
2. Persons over 18 years of age who are capable of profiting from the instruction offered and who come well recommended.
3. Persons who have served in the active military service of the United States for at least 90 days during a war with any foreign power or during any period of national emergency declared by the President of the United States.
4. A person 18 years of age or older, not possessing a high school diploma, who was in attendance at a Los Angeles City senior high school the semester preceding proposed attendance at a junior college must have the consent of the principal of that high school. He must also show evidence of being able to pursue successfully the proposed course of study at the Junior College.

TRANSFERS FROM OTHER COLLEGES

An applicant from another college must have his high school transcript and a transcript of all college work sent to the Office of Admissions. These documents, along with a formal application for admission, must be on file in order for a student to register. A satisfactory scholarship record is required for admission.

A student who has been dropped from another institution on account of poor scholarship or misconduct may not be permitted to enroll at Valley Junior College.

APPLICATION FOR ADMISSION

Students seeking admission to Los Angeles Valley Junior College must submit the following forms before the opening of the semester they expect to be in attendance:

1. Application for admission.
2. Transcript of high school or other college credits.
3. Photostat of high school cumulative record.

Persons seeking admission to the College after the advance application date are advised that their names will be held on a waiting list, and that the regular applicants have first opportunity to register for classes. No one, however, will be denied admission up to the close of registration so long as the College can provide class accommodations and instructors.

RESIDENCE REQUIREMENTS

The legal residence of a Junior College student under twenty-one years of age is that of the parent or legal guardian, regardless of where the student is actually residing.

A Junior College student (with the exception of those veterans enrolled under Public Law No. 346 or No. 16) whose legal residence is within the boundaries of another junior college district or a high school district maintaining junior college classes, must present at the time of registration a permit from his district of residence unless he is pursuing a day or evening program of ten hours or less per week. This applies to any student who is a legal resident of one of the following districts of the Los Angeles area:

Compton
El Camino
Glendale
Long Beach
Pasadena
Santa Monica
Muir College

ATTITUDE OF THE ARMED FORCES TOWARD COLLEGE TRAINING

The Army, Air Force, Navy, Marines, and Coast Guard continue to be keenly interested in the training received prior to your entrance into the service. Despite isololated instances of mis-assignment, the services analyze your background and assign you to duty related to training and experience. They are particularly interested in technical training in Drafting, Junior Engineering Surveying, Aeronautical Science, Radio and Television, Business Administration, and Secretarial Science. Your personnel card follows you from the point of induction to subsequent stations, and education and background as shown on this card are a factor in assignments and promotion. Technical and specialized training are particularly valuable. Note also that one of the requirements for direct application to Officers Candidate School is the completion of 60 units of college work. Since the Armed Forces need men with college training, and since only six percent of the men in service have had such training, it is to your own best interests and that of the nation to attend college before you serve.

COLLEGE STUDENT DEFERMENT

Immediately after you have received the initial questionnaire from the local board, inform them regarding your college attendance. This is done as follows: Go to the Admissions and Guidance Office and fill out Selective Service Form 109 (College Student Certificate). The College then processes this form, mails it to your Selective Service Board. The Board will defer you until the end of the school year. You will later receive notification that your classification has been changed from 1A to 1S.

In order to be granted deferment, you must carry at least 12 units. However, local boards favor a program of approximately 15 units since this is a standard load. They do not require specific subjects but favor a balanced program which leads to a vocational objective.

As a college student, you are assured of deferment until the end of the college year. To date, it has been the policy of the local boards to defer all students at this College until completion of their two-year course. Many have secured subsequent deferments at four-year colleges or universities. Subsequent deferment is dependent upon many factors, such as your standing in college, the demand for men, your score on the Selective Service Test. Note that deferment is in the hands of the local board and that each case is considered individually. Many factors are taken into consideration.

REGISTRATION INFORMATION

EXPENSES

As the College is a public institution, no tuition fee is charged, although the Board of Education does authorize the College to require deposits and such other general charges as are deemed necessary by the Junior College authorities. No laboratory fee or deposit is required before enrollment, but at the close of the semester there will be a small fee for breakage, if any. The student must buy his own textbooks, the cost of which is usually about $15.00 a semester.

Experience has demonstrated that student activities are essential features in the program at the Junior College. Those activities are financed by money received from memberships in the Associated Students organizations, in which each student is expected to buy a membership. Total receipts are budgeted to activities on a percentage distribution plan for the health, the convenience, and the general welfare of the students in accord with policies, rules, and regulations defined by the Board of Education. Thus a student's first financial obligation is the purchase of his Associated Students Membership card, which costs $6.50 a semester. This includes 50¢ federal tax. This is a customary charge and each student is expected to buy a membership in this organization.

LATE REGISTRATION

No student will be allowed to register later than the second Friday of the semester. Those who apply to register after the first three days of registration will find may classes closed and the choice of subjects limited. Third week registrants must have permission of the instructor to enter a class.

UNITS OF WORK

In computing the number of units granted for any course, the Los Angeles Valley Junior College follows the general practice of granting one unit of credit for each lecture period the class meets per week for one semester. The periods are approximately one hour in duration.

The college requires two periods of attendance per week for each unit of credit for non-lecture periods (laboratories, shops, etc.) which require no systematic or continuous outside preparation.

PLANNING YOUR PROGRAM

Each student who applies for admission to Valley Junior College is given a personal interview with a counselor. The purposes of this interview are:

1. To help orient the student to a new educational experience.
2. To help the student select a course of study suited to his interests and abilities.
3. To review with him the services which the college offers the student.

Early in the semester each student is assigned to a counselor who has had considerable experience in the field in which the student is majoring. This counselor will meet with the student by appointment at the student's request. However, each student is expected to meet with his counselor at least twice a semester.

Generally speaking a student will carry from 15 to 17 units a semester. Those interested in carrying in excess of 17 units, or fewer than 10½, may do so only after presenting a petition to the Office of Admissions.

Students are advised not to attempt both full time employment and a full college load.

CHANGE OF PROGRAM

During registration each student will fill out a permanent program card, which then is filed in the Office of Admissions.

All program changes must be approved by the Office of Admissions and Guidance on "Petition for Change of Program" forms. These forms are obtained at the Office of Admissions and Guidance, and must be signed by the instructors concerned and the counselor. Classes may be added until the third Friday of the semester. Classes may be dropped without penalty until the eighth Friday of the semester. Unless such authorization is granted, a grade of "F" may be recorded.

A grade of "F" may be recorded for any course dropped for non-attendance without official approval. If a student drops a course after eight weeks he will receive a "W" ("WF" if he is failing) at time of withdrawal.

WITHDRAWAL

Los Angeles Valley Junior College is just as interested in the student at the time he intends to withdraw from the institution as when he enters. The College recognizes that a student does not leave college for superficial reasons. Quite often, at such a time the student stands in need of the advice and help of a mature person.

A student intending to withdraw from school during the semester is requested to notify the Office of Admissions and Guidance.

At the same time his records can be processed, and the courses officially dropped. Withdrawing from college can be done in this way without incurring the penalty of an "F" mark in all courses for leaving school unofficially.

STUDENT TRANSFERS

Many students will want to transfer credit earned at Los Angeles Valley Junior College to another college or university. Colleges and universities are not uniform in their entrance requirements nor in the number of units awarded for specific classes. Consequently, the student planning to transfer should verify his program with the college or university to which the transfer is to be made to make sure that he is meeting all requirements. The counselors at Valley College will help you with this.

TRANSCRIPTS OF RECORD

A student transferring to another college or university may obtain a transcript of his work at Valley Junior College by filling out a "Request for Transcript" at the Office of Admissions. One transcript of college credits is furnished free.

SCHOLASTIC INFORMATION

SCHOLARSHIP STANDARDS

Scholarship is an index of capacity, ability and drive. A student's success in college or on the job can be gauged with reasonable accuracy by the marks he receives. Students, therefore, are expected to maintain satisfactory scholarship records of "C" average or better. When a student receives failing marks or his records fall below the acceptable standard, he is expected to seek the aid of the counselors. The counselors of the college are especially mindful of the needs of the student having scholarship difficulties and will arrange, within existing facilities, to provide him with special help.

GRADES

Marks will be given by instructors at the middle and at the end of each semester. The marks and grade points are as follows:

Grade	*Interpretation*	*Grade Points*
A	Excellent	3 points per unit
B	Good	2 points per unit
C	Average	1 point per unit
D	Passing	0 point per unit
Inc.	Incomplete	0 point per unit
F	Failure	0 point per unit
W	Withdrawn	0 point per unit
WF	Failure at time of withdrawal	0 point per unit

An "Incomplete" will be given when a student fails to take the final examination because of illness or any other unavoidable cause. The "Incomplete" must be removed during the semester following that in which it was incurred or it will automatically become an "F."

When a course in which an F or a D has been received is repeated, the student shall be entitled to the grade and grade points he earns but shall not receive additional units. All grades are filed in the Office of Admissions and Guidance and are permanent.

FINAL EXAMINATIONS

Final examinations are held in all subjects according to a schedule which will be announced. No examination will exceed two hours. No student will be excused from the final examinations. Should circumstances develop which justify a student's requesting a special examination at a time other than that scheduled, the student must secure special authorization from the Office of Admissions and Guidance.

ATTENDANCE

A student is expected to attend every meeting of all classes for which he is registered except in cases involving illness or emergency. Whenever a student is absent more than once for a one-unit course, more than twice

for a two-unit course, more than three times for a three-unit course, etc., the instructor will exclude him from class and refer him to the Office of Admissions and Guidance. To reenter a class a student must file a petition for readmittance.

Three cases of tardiness will be considered the equivalent of one absence and no excuses for tardiness will be accepted.

A student who is absent from a class or from college for a period of two consecutive weeks, and who has not requested a leave of absence, will be dropped upon the recommendation of the instructor. Marks of F will be recorded in the classes involved.

SCHOLASTIC REQUIREMENTS

All students are expected to maintain satisfactory scholarship records (C average). Students who fall below the satisfactory standard may be placed on probation or be disqualified from continuing attendance at Valley Junior College by action of the Scholarship Committee.

If a student falls four or more grade points below making a C (1.0) average any semester; or, after two semesters is as many as eight grade points short; or, after three or more semesters is as many as twelve grade points short, he shall be placed on probation for the following semester.

If the student falls below a C (1.0) average the semester following his being placed on probation, he will be disqualified from further work at the college.

A student may seek re-admittance by petitioning the Scholarship Standards Committee.

At the end of the first five weeks of each semester instructors will notify students having a D or F record.

STUDY HABITS

The one great item of evidence of worthiness to be classed as a college student will be obvious maturity. There must be maturity of mind, of habits, of conduct, and of ability to study.

Before undertaking to study, it is advised that each student determine his or her ability and knowledge in regard to study.

Study will be required of all students in our College. Instructors, counselors, and administrators will consider it an opportunity to render true service to the student should he ask for assistance in formulating a study plan and in developing correct study habits.

UNIVERSITY OF CALIFORNIA TRANSFER REGULATIONS

Students regularly enrolled may be recommended for transfer to the University of California at the end of any semester provided they have made satisfactory records (1.0 grade point average) at the Junior College and were entitled to enter the University at the time of their graduation from high school. When they have completed a Junior College parallel curriculum with a 1.0 grade point average they are eligible to enter the University with advanced standing.

Students who have made up high school deficiencies are ordinarily required by the University of California to complete a minimum of 15 units of work at the Junior College after deficiencies are cleared, with at least a 1.5 average (an average halfway between C and B), before admission is granted. Students are also allowed to enter the University upon completion of 60 units of college transfer work with a C average.

GRADUATION REQUIREMENTS
and
REGULATIONS

ASSOCIATE IN ARTS DEGREE

Los Angeles Valley Junior College will award the Associate in Arts Degree to all students who complete satisfactorily a two-year curriculum of sixty semester hours including the following:*

1. Sixty units of work with a C average or better. A student must have as many grade points as units.

2. A systematic sequence of courses (major) consisting of at least 20 units and leading to a well defined objective jointly determined by the student and his counselor.

3. Two units of physical education, one-half unit in activities each semester.

All students enrolled in the Junior College, except those excused, are required to attend a course in physical education for a minimum of 120 minutes per week. These activity courses are to be given unit credits computed on the same basis as are units for laboratory and other so-called nonpreparation courses. Temporary exemption from this requirement may be granted:

a. To students who are ill or injured, where a modified program to meet their needs cannot be provided.

b. To students enrolled for one-half the units (8 units) or fewer of those units normally required for full-time students.

Permanent exemption may be granted:

a. To students who are 25 years of age or older.

b. To students who have earned sixty or more units (post-graduates).

c. To students having a physician's certificate.

4. Health 10, two units. Required by the State Department of Education.

5. Successful completion of the "American History and Institutions requirement." See appendix for combinations.

6. Six units in English and Speech. All students are required to take English 1 (3 units), plus three units chosen from English 2, Speech 1, 3, or 7, Journalism 1, Secretarial Science 21 (for Secretarial Science majors), English 29 (for Nursery Education majors).

7. Enrollment in the Los Angeles Junior College during the academic year in which the degree is granted. Graduation does not necessarily entitle the student to transfer to a four-year institution, nor does it entitle those who do transfer to enter the upper division. Transfer requirements are prescribed by the admitting institution.

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*The requirements listed here meet the requirements of the California School Code and the regulations of the Los Angeles Board of Education.

PART II
FIELDS OF CHOICE

Various general education, technical and university transfer curricula are described in this section. Subjects listed under each course pattern are recommended but substitution may be made to meet individual needs.

WHITE OWL

FIELDS OF CHOICE FOR JUNIOR COLLEGE EDUCATION

Among the Associate in Arts Degree Curricula on the following pages will be found three broad classifications:

1. General—Preparation for undertaking the responsibilities of the home, community and parenthood. This curriculum will also serve those students not yet decided on a definite vocation, but who wish to acquire a wider knowledge of the modern world through a broad foundation in General Education and the Liberal Arts.
2. Technical—Practical preparation pointed directly toward employment in business, industry, or public service, at the end of two years. Subjects which have been found to be most useful in preparation for the various semi-professions will make up the body of these curricula.
3. University Transfer—Preparation for entrance to a university or college with junior standing.

   Students pursuing a college transfer program should decide as soon as possible on the institution they plan to attend after leaving Valley. It is their responsibility to become familiar with the specific entrance requirements of the institution of their choice. The appendix of this catalog should be very helpful to those who decide upon a college in this area.

COURSE PATTERN

Course patterns for the various majors appear on the following pages. The course pattern is regarded as a sequence of courses leading to an appropriate goal in accord with the student's interests, abilities, needs and aspirations. The course pattern also endeavors to give the student mastery of a basic group of special skills and knowledges of at least one field of learning or employment.

The courses taken in conjunction with, or upon completion of, the required common courses, the strongly recommended courses, and the major courses, should be directed toward specialized training and should contribute skills and abilities in the student's field of endeavor. Students are advised to read carefully the material which introduces each pattern. Those students desiring to deviate from the suggested courses should do so only after meeting with a counselor.

ACCOUNTING

There is always a demand for well qualified men and women to serve as public accountants in business for themselves or as private accountants acting as employees within a business in the capacity of accountant, auditor, comptroller, or finance officer. In addition, employment opportunities exist for specialists in the accounting field, for example, in the field of taxes or liquidations.

Los Angeles Valley Junior College offers two plans for those students desiring to enter the field of accounting:

Plan A—For students desiring to enter business as accountants but not planning to enter public accounting—a two-year terminal course.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Business 2	4
Business 1	4	Economics 2	3
Business 5	2	Political Science 10	2
Economics 1	3	Health 10	2
English 1	3	Secretarial Science 21	3
Mathematics 9	3	Secretarial Science 1	2
Physical Education	½	Physical Education	½
	16½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Business 53	3	Business 54	3
Business 73	3	Business 65	3
Business 84	3	Business 75	3
Secretarial Science 30A	1	History 10	2
Law 1	3	Law 2	3
Secretarial Science 2	2	Secretarial Science 30B	1
Physical Education	½	Physical Education	½
	15½		15½

ACCOUNTING

Plan B—For students whose objective is the C.P.A. Certificate and who will transfer to a university at the end of two years—a transfer course.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	History 5 or 11	3
English 1	3	Humanities	3
Science (Physical)	3	Mathematics 2	3
Humanities	3	Science (Physical)	3
*Language (Course 2)	4	Speech 1 or English 2	3
Mathematics 1 or 21	3	Health 10	2
Physical Education	½	Physical Education	½
	17½		17½

*Students who wish to qualify for an Associate in Arts degree at U.C.L.A. must complete the 16-unit language requirement in full.

SECOND YEAR

GAMMA	*Units*
Business 1	4
Economics 1	3
History 6 or 12	3
Humanities	2 or 3
Science (Biological)	3
Physical Education	½
	15½ or 16½

DELTA	*Units*
Business 2	4
Economics 2	3
Humanities	2 or 3
Science (Biological)	3
Social Science	3
Physical Education	½
	15½ or 16½

AERONAUTICAL SCIENCE

This course is designed primarily for the purpose of giving a background in aeronautical technology to those persons who intend to enter or who are already working in the aircraft field.

Persons who enter the industry after completing this course should be able, after obtaining some practical experience, to qualify for positions as engineering technologists in the aircraft industry.

FIRST YEAR

ALPHA	*Units*
English 1	3
Engineering 16A	3
Engineering 51	2
Engineering 82	3
Mathematics 3	3
Mathematics 1 or 21	3
Physical Education	½
	17½

BETA	*Units*
English 2 or Speech 1	3
Engineering 16B	3
Engineering 52	2
Engineering 53A	2
Engineering 83	3
Mathematics 7A	3
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
Engineering 16C	3
Engineering 53B	2
Engineering 84A	3
Engineering 85A	3
Mathematics 7B	3
Political Science 10	2
Physical Education	½
	16½

DELTA	*Units*
Engineering 16D	3
Engineering 84B	3
Engineering 85B	3
Mathematics 8A	3
History 10	2
Health 10	2
Physical Education	½
	16½

APPLIED DESIGN

The design curriculum is planned for those intending to enter the fields of interior decoration, window, counter and exhibition display, and interior and industrial design. Courses in other fields included in this curriculum provide a practical and cultural background which will be helpful to the designer. This is a two-year curriculum.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Art 1A	2	Art 1B	2
Art 2A	2	Art 2B	2
Art 4A	2	Art 4B	2
Art 15	2	Art 22	2
English 1	3	English 2 or Speech 1	3
History 1	3	History 2	3
Psychology 23	3	Engineering 12	3
Physical Education	½	Physical Education	½
	17½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 7A	2	Art 7B	2
Art 14A	2	Art 14B	2
Art 15	2	Art 23B	2
Art 23A	2	Art 35B	2
Art 21B or Elective	2	Political Science 10	2
Art 35A	2	Electives	5
History 10	2	Physical Education	½
Health 10	2		
Physical Education	½		
	16½		15½

ARCHITECTURE

Universities differ in their architectural curricula; hence, the student should become familiar with the requirements of the university of his choice. It is difficult to duplicate the lower division work of other colleges completely in this major.

The following program satisfies in part the requirements of the first year's work in the School of Architecture at U.S.C. It is, however, advisable for students who plan to transfer to confer with the Dean of the School of Architecture at U.S.C.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	English 2	3
Architecture 1	3	History 2	3
Art 4A	2	Mathematics 1 or 21	3
Mathematics 3	3	Engineering 3	3
English 1	3	Health 10	2
History 1	3	Elective	2
Elective	2	Physical Education	½
Physical Education	½		
	17½		16½

Additional Courses Recommended:

Economics 1 or Sociology 1
Physics 6 and 7
History 11 and 12

ART

This course is designed particularly for those students interested in majoring in Art who intend to obtain an A.B. degree and a Special Secondary Credential. An Art major must meet the regular requirements for Junior standing in the College of Applied Arts (U.C.L.A.). It is assumed that the student has met the high school requirements for entrance to University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Art 1B	2
Art 1A	2	Art 2B	2
Art 2A	2	Art 4B	2
Art 4A	2	English 2	3
English 1	3	Foreign Language or Science	4
Foreign Language or Science	4	History 6 or 12	3
History 5 or 11	3	Physical Education	½
Physical Education	½		
	17½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 7A	2	Art 7B	2
Art 14A	2	Art 14B	2
Art 21A	2	Art 21B	2
Foreign Language or Science	4	Art 44	2
Health 10	2	Foreign Language or Science	4
Psychology 21	3	Psychology 22	3
Physical Education	½	Physical Education	½
	15½		15½

ART CRAFTS

FIRST YEAR

The Art Crafts curriculum is organized for students planning a career in designing and creating of textiles and ceramics. It is flexible so that a student may emphasize crafts in combination with either commercial art or painting. This is a two-year curriculum.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Art 1A	2	Art 1B	2
Art 2A	2	Art 2B	2
Art 4A	2	Art 4B	2
Art 21A	2	Art 21B	2
English 1	3	English 2 or Speech 1	3
History 10	2	Health 10	2
Elective	2	Political Science 10	2
Psychology 10	1	Physical Education	½
Physical Education	½		
	16½		15½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 7A	2	Art 15	2
Art 14A	2	Art 35B	2
Art 22	2	Art 38B	2
Art 35A	2	History 2	3
Art 38A	2	Psychology 23	3
History 1	3	Electives	4
Elective	2	Physical Education	½
Physical Education	½		
	15½		16½

BUSINESS ADMINISTRATION

This curriculum meets the requirements for transfer to the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Science (Physical)	3
Humanities	3
*Language (Course 2)	4
Mathematics 1 or 21	3
Physical Education	½
	17½

BETA	*Units*
Health 10	2
English 2 or Speech 1	3
Science (Physical)	3
Humanities	3
History 5 or 11	3
Mathematics 2	3
Physical Education	½
	17½

SECOND YEAR

GAMMA	*Units*
Business 1	4
Economics 1	3
History 6 or 12	3
Humanities	2 or 3
Science (Biological)	3
Physical Education	½
	15½ or 16½

DELTA	*Units*
Business 2	4
Economics 2	3
Social Science	3
Humanities	2 or 3
Science (Biological)	3
Physical Education	½
	15½ or 16½

BUSINESS MANAGEMENT

Training in business management at Valley College, whether on a one-year or two-year program, will prepare the student to take his place in the business world, either as the owner and operator of his own business or as an employee in business or industry in varying junior management capacities.

The one-year course is recommended to those who desire the minimum of training and who do not wish to qualify for the Associate in Arts degree. For those students who want the degree and who desire a more complete training program, the two-year course is recommended. Either course will provide a general background of business training that will be useful in any occupation.

Upon completion of the one-year course it will be possible for the student, if he so desires, to take another year's work in order to qualify for an Associate in Arts degree.

*Students who wish to qualify for an Associate in Arts degree at U.C.L.A. must complete the 16-unit language requirement in full.

ONE-YEAR COURSE

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Philosophy 3	2
Business 5	2	Business 14	3
Business 67	3	Business 66	3
Business 68	3	Business 84	3
English 1	3	Secretarial Science 1	2
Mathematics 9	3	Secretarial Science 21	3
Secretarial Science 30A	1	Physical Education	½
Physical Education	½		
	16½		16½

TWO-YEAR COURSE

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Business 66	3
Business 5	2	Economics 2	3
Economics 1	3	Speech 1	3
English 1	3	Secretarial Science 1	2
Mathematics 9	3	Secretarial Science 21	3
Psychology 23	3	Physical Education	½
Physical Education	½		
	15½		14½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Business 67	3	Business 14	3
Business 68	3	Business 84	3
Health 10	2	Philosophy 3	2
Law 1	3	Law 2	3
Political Science 10	2	History 10	2
Elective	2	Secretarial Science 30A	1
Physical Education	½	Physical Education	½
	15½		14½

CHEMISTRY

The program outlined below represents the minimum preparation necessary for the university transfer chemistry major and also satisfies the requirements for the Associate in Arts Degree.

It is assumed that the student beginning the major has had two years of high school algebra, one year of geometry, a semester of trigonometry, one year of chemistry, one year of physics, and two years of foreign language.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Chemistry 1	5
Mathematics 7A	3
Mathematics 21	3
Physical Education	½
	15½

BETA	*Units*
English 2	3
Chemistry 2	5
Mathematics 7B	3
Physics 1	3
Health 10	2
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
Chemistry 5	3
Mathematics 8A	3
Physics 3	3
History 5 or 11	3
German 1	4
Physical Education	½
	16½

DELTA	*Units*
Chemistry 6	3
Mathematics 8B	3
Physics 4	3
History 6 or 12	3
German 2	4
Physical Education	½
	16½

Chemistry 7, 8, 9, and German 3, 4 are strongly recommended.

CHIROPODY

Chiropody is the profession dealing with the prevention, cure and alleviation of diseases of the feet by medical, mechanical, and surgical means.

The pre-chiropody curriculum shown below qualifies the student for admission to the California College of Chiropody, San Francisco, where a four-year course in Chiropody is offered. Graduates of this course earn the degree Doctor of Surgical Chiropody (D.S.C.), and are eligible to take the State Board of Medical Examiners' written examination for a certificate to practice Chiropody.

FIRST YEAR

ALPHA	*Units*
Chemistry 1	5
English 1	3
Foreign Language	4
Physics 6	4
Psychology 10	1
Physical Education	½
	17½

BETA	*Units*
Chemistry 2	5
English 2	3
Foreign Language	4
Physics 7	4
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
Chemistry 5	3
Elective	3
Health 10	2
History 10	2
Zoology 1	5
Physical Education	½
	15½

DELTA	*Units*
Chemistry 7 and 8	6
Electives	3
Political Science 10	2
Zoology 2	5
Physical Education	½
	16½

DENTISTRY

Students interested in the field of dentistry should consult the catalog of the institution to which they plan to transfer. The University of California advises students seeking admission to its College of Dentistry to take the following program. It is assumed that students interested in this course have completed one year of physics, one year of chemistry, and three years of mathematics in high school.

FIRST YEAR

ALPHA	*Units*
Chemistry 1	5
English 1	3
History 5 or 11	3
Physics 6	4
Psychology 10	1
Physical Education	½
	16½

BETA	*Units*
Chemistry 2	5
English 2	3
History 6 or 12	3
Physics 7	4
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*
Chemistry 7 and 8	6
Humanities	2 or 3
Sociology, Humanistic Subjects or Mathematics	3
Zoology 1	5
Physical Education	½
	16½ or 17½

DELTA	*Units*
Elective	3
Health 10	2
Humanities	2 or 3
Sociology, Humanistic Subjects or Mathematics	3
Zoology 2	5
Physical Education	½
	15½ or 16½

DRAFTING

This program prepares students in the language and fundamentals of design, installation, and operation of the construction industry, mechanical fields, and the allied fields. Skills developed in drafting and related work based on use of materials, knowledge of tools and manufacturing methods, and the problems of craftsmen in production form the background for the practical training. The process of drawing, use of drafting equipment, and the understanding of drawing offer students a widespread area of employment possibilities.

FIRST YEAR

ALPHA	*Units*
Engineering 12	3
Engineering 48	1
English 1	3
History 10	2
Mathematics 50 (If no intermediate algebra in high school) or Elective	5
Psychology 10	1
Physical Education	½
	15½

BETA	*Units*
Engineering 3	3
English 2 or Speech 1	3
Health 10	2
Mathematics 63 (If no geometry in high school) or Elective	5
Political Science 10	2
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*
Engineering 8	3
Engineering 15	3
Mathematics 3	3
Mathematics 67	1
Engineering 16A	3
Engineering 76A	3
Physical Education	½
	16½

DELTA	*Units*
Engineering 76B	3
Mathematics 1	3
Engineering 54	3
Engineering 79	3
Engineering 16B	3
Physical Education	½
	15½

EDUCATION

The state of California requires a credential of the proper type for teaching in the public schools. Among the credentials issued are the Kindergarten-Primary, General Elementary, Junior High School, General Secondary, and Junior College. Students planning to secure one of the last three credentials named should follow the lower division program of the institution to which they wish to transfer. The following suggested curriculum, which meets the requirements for the Associate in Arts degree, is intended for students planning to work toward the Kindergarten-Primary or General Elementary credential at the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Health 10	2
English 1	3
Foreign Language	4
Geography 1	3
History 5 or 11	3
Physical Education	½
	16½

BETA	*Units*
Art 1A or Music 18	2
English 2	3
Foreign Language	4
Geography 2	3
History 6 or 12	3
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*
Art 1B or Music 19	2
Foreign Language	4
Psychology 21	3
Biological Science	3
Physical Education 23	3
Physical Education	½
	15½

DELTA	*Units*
Art 42	3
Music 1	3
Psychology 22	3
*Physical Science	3
Mathematics 38 (for General Elementary)	2
Elective	3
Physical Education	½
	17½

*This course must be chosen from Astronomy, Mathematics, Chemistry or Physics.

ENGINEERING

The Engineering curriculum outlined below fulfills the requirements for the degree of Associate in Arts. It also meets the requirements for junior standing at the University of California at Los Angeles.

To embark upon this program, the student must have had two years of high school algebra, one year of geometry, a semester of trigonometry, one year of chemistry, one year of physics, and one year of mechanical drawing.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Chemistry 1	5	Chemistry 2	5
Mathematics 21	3	English 2	3
English 1	3	Mathematics 7B	3
Mathematics 7A	3	Physics 1	3
*Engineering 1	3	Engineering 3	3
Physical Education	½	Physical Education	½
	17½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Biological Science	3	Engineering 18	3
Engineering 48	1	Mathematics 8B	3
Mathematics 8A	3	Physics 4	3
Physics 3	3	History 6 or 12	3
History 5 or 11	3	Engineering 8	3
Engineering 17	3	†Engineering 15	3
Health 10	2	Physical Education	½
Physical Education	½		
	18½		18½

*In addition, Engineering 2 and Geology 1 and 6 are required of Civil Engineering majors.

†Required of Mechanical Engineering majors only, but strongly recommended for all Engineering majors. Physics 2 is also recommended for all Engineering majors.

JUNIOR ENGINEERING

This curriculum has been designed to give the graduate sufficient engineering fundamentals and practical skills to enable him to enter the profession as a technical assistant in various branches of engineering.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Engineering 1	3
Engineering 12	2
Engineering 48	1
English 1	3
Mathematics 3 or 1	3
History 10	2
Physical Education	½
	15½

BETA	*Units*
Mathematics 1 or 21	3
English 2 or Speech 1	3
Physics 8	4
Engineering 2	3
Engineering 3	3
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
Elective	2
Engineering 15	3
Engineering 73	2
Engineering 80	2
Engineering 54	3
Mathematics 67	1
Political Science 10	2
Physical Education	½
	15½

DELTA	*Units*
Engineering 74	2
Engineering 79	3
Physics 6	4
Health 10	2
Elective	5
Physical Education	½
	16½

ENGLISH

The major in English is organized for the student planning a career as teacher, writer, editor, or librarian. Because of its emphasis on a broad understanding of people and ideas, it would be of inestimable value also to those preparing for such professions as medicine, law, and the ministry.

It should be remembered that English is a tool indispensable in any field. Increasingly, leaders in technological areas, such as engineering and the physical sciences, are urging their students to take further courses in English as an aid to facility in reaching logical solutions and to concreteness in expressing ideas.

FIRST YEAR

ALPHA	*Units*
English 1	3
Psychology 10	1
*Foreign Language	4
History 5 or 11	3
Physical Science	3
Health 10	2
Physical Education	½
	16½

BETA	*Units*
Biological Science	3
Foreign Language	4
History 6 or 12	3
Physical Science	3
English 2	3
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
English 9	3
Foreign Language	4
Humanities	2 or 3
†Psychology 21	3
History 3	3
Physical Education	½
	15½ or 16½

DELTA	*Units*
English 10	3
Humanities	2 or 3
Health 10	2
†Psychology 22	3
History 4	3
Social Science	3
Physical Education	½
	16½ or 17½

FOREIGN LANGUAGE

The Foreign Language curriculum outlined below fulfills the requirements for the degree of Associate in Arts. It also meets the requirements for junior standing at the University of California at Los Angeles. The curriculum provides for two semesters of a second language.

This curriculum offers training for the student planning on the teaching profession in the foreign language field or for such employment areas as interpreters, manufacturers' agents, and posts in the diplomatic service.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Foreign Language	4
Physical Science	5
††Social Science	3
Physical Education	½
	16½

BETA	*Units*
Health 10	2
English 2	3
Foreign Language	4
Biological Science	5
Social Science	3
Physical Education	½
	17½

*French or German recommended.

†Required of students interested in General Secondary Credential.

††See page 112.

SECOND YEAR

GAMMA	*Units*
Foreign Language	4
Foreign Language	4
History 5 or 11	3
†Humanities	5
Physical Education	½
	16½

DELTA	*Units*
Foreign Language	4
Foreign Language	4
History 6 or 12	3
Humanities	5
Physical Education	½
	16½

FORESTRY

To be successful, the professional forester must have a broad education not only in the natural sciences but in economics, mathematics, and engineering. The College of Agriculture of the University of California offers thorough training in this field, and students preparing to enter there should take the subjects listed below in Junior College.

FIRST YEAR

ALPHA	*Units*
Biology 1	3
Chemistry 1	5
English 1	3
Mathematics 7A	3
Psychology 10	1
Physical Education	½
	15½

BETA	*Units*
Chemistry 7	4
Health 10	2
English 2 or Speech 1	3
*History or Political Science	2 or 3
Mathematics 7B	3
Physical Education	½
	14½ or 15½

SECOND YEAR

GAMMA	*Units*
Economics 1	3
Elective	2
Engineering 1	4
*History or Political Science	2 or 3
Physics 6	4
Physical Education	½
	15½ or 16½

DELTA	*Units*
Botany 1	5
Economics 2	3
Geology 1	3
Physics 7	4
Physical Education	½
	15½

†See page 87.

*Must be chosen from courses which meet the requirement for U. S. History and American Government.

GENERAL EDUCATION

The general curriculum prepares for undertaking the responsibilities of the home and parenthood. The general curriculum will also serve those students not yet decided on a definite vocation but who wish to acquire a wider knowledge of the modern world through a broad foundation in general education and the liberal arts.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Biology 1	3
English 1	3
History 1	3
Psychology 23	3
Art 1A	2
Music 18	2
Physical Education	½
	17½

BETA	*Units*
Geography 1	3
Biology 2	3
English 2 or Speech 1	3
History 2	3
Psychology 25	3
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*
Economics 1	3
English 3	3
Geology 1	3
Political Science 10	2
Sociology 1	3
Health 10	2
Physical Education	½
	16½

DELTA	*Units*
Economics 2	3
English 4 or Geology 2	3
Elective	2
History 10	2
Sociology 2	3
Sociology 15	3
Physical Education	½
	16½

GEOLOGY

The curriculum suggested below, with the exception of a course in Mineralogy, † fulfills the requirements for the Associate in Arts degree and for junior standing in the College of Letters and Science at the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Geology 1	3
Geology 6	1
English 1	3
Chemistry 1	5
Mathematics 1 or 21	3
Physical Education	½
	16½

BETA	*Units*
Geology 2	3
English 2	3
Chemistry 2	5
Mathematics 3	3
Health 10	2
Physical Education	½
	16½

†Mineralogy not offered during the school year 1952-53.

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Engineering 1	3	†Foreign Language	4
History 5 or 11	3	History 6 or 12	3
Humanities	2 or 3	Humanities	2 or 3
Physics 6	4	Physics 7	4
Mathematics 7A	3	Elective	3
Physical Education	½	Physical Education	½
	15½ or 16½		16½ or 17½

HISTORY

The curriculum suggested below fulfills the requirements for the Associate in Arts degree and the requirements for junior standing in the College of Letters and Science of the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Art 1A	2	Art 1B or Music 18	2
English 1	3	English 2	3
*Foreign Language	4	*Foreign Language	4
History 1	3	History 2	3
Psychology 10	1	Physical Science	3
Physical Science	3	Health 10	2
Physical Education	½	Physical Education	½
	16½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Economics 1	3	Biological Science	3
English 3 or Philosophy 1	3	English 4 or Philosophy 2	3
*Foreign Language	4	*Foreign Language	4
History 11	3	History 12	3
Psychology 21	3	Psychology 22	3
Physical Education	½	Physical Education	½
	16½		16½

†The foreign language requirement may be met in the junior and senior years.

*That part of the University foreign language requirement satisfied by high school courses should be devoted to the taking of other social science courses.

HOME ECONOMICS

UNIVERSITY TRANSFER CURRICULUM

Students planning to major in Home Economics at the University of California at Los Angeles must meet the requirements for admission to the College of Applied Arts and must include in their programs the courses requisite to the particular field in Home Economics they intend to pursue. The possible fields and courses given at Valley Junior College which should be included with the general University requirements are as follows:

1. General Home Economics: Art 2A, Art 21A, Chemistry 3.
2. Home Economics Teacher Education: Art 2A, Art 21A, Chemistry 3, Psychology 21 and 22, Zoology 15.
3. Foods and Nutrition: Business 1, Bacteriology 1, Chemistry 3, Economics 1 and 2, English 1 and 2, or Speech 1 and 2, Psychology 21 and 22, Zoology 15.
4. Foods and Nutrition for students preparing for graduate work or research positions: Chemistry 1, 2, and 7, Mathematics 3, 21, 7A and 7B, Physics 6 and 7, Bacteriology 1, Zoology 15.
5. Clothing and Textiles: Art 2A, 2B, 7A, and 21A, Chemistry 3, Economics 1 and 2.

HOMEMAKING, FINE ARTS, AND APPLIED ARTS

This two-year college course of study is specifically designed to train people to meet the continually changing problems of contemporary living on an economically sound basis. The major is based on the functionally related fields of art, home economics, and psychology. Emphases are placed on problems of society, problems of taste, consumer education, domestic finance, and homemaking skills.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Art 1A	2	Art 1B	2
Art 2A	2	Art 2B	2
Art 21	2	Art 4A	2
English 1	3	Art 35	2
History 1	3	Elective	2
Psychology 23	3	History 2	3
Psychology 10	1	Speech 1	3
Physical Education	½	Physical Education	½
	16½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 4B	2	Business 89	3
Art 36	2	Electives	4
Electives	4	Health 10	2
History 10	2	History 7	3
Mathematics 9	3	Political Science 10	2
Psychology 25	3	Sociology 15	3
Physical Education	½	Physical Education	½
	16½		17½

INDUSTRIAL ARTS

Industrial Arts offers an excellent opportunity for selected young men who would like to teach in a junior or senior high school. If a student likes to work with tools, processes, and equipment; if he possesses manipulative and mechanical aptitude, likes to work with young people, is personable, and possesses social intelligence, Industrial Arts teaching offers a challenging future. The first two years of a four-year program can be carried at Los Angeles Valley Junior College, and the final two years can be completed at a state college. Admission and course requirements of the college from which one wishes to graduate should be carefully followed.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Art 1A or Music 18	2	Art 1B or Music 19	2
Art 4A	2	Biological Science	3
Biological Science	3	Engineering 12	3
Engineering 61A	3	Engineering 61B	3
English 1	3	English 2	3
History 11	3	History 12	3
Psychology 10	1	Physical Education	½
Physical Education	½		
	17½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Engineering 15	3	Elective	2
Engineering 61 C	3	Engineering 61D	3
Chemistry 3	5	Health 10	2
Psychology 21	3	Philosophy 1	3
Speech 1	3	Physics 8	4
Physical Education	½	Psychology 22	3
		Physical Education	½
	17½		17½

JOURNALISM

TERMINAL

This two-year curriculum is designed for the student who intends to pursue newspaper work. It trains particularly for work on the small daily and weekly community newspaper. It is open to students who have had no previous training in journalism.

FIRST YEAR

ALPHA	*Units*
Economics 1	3
English 1	3
Journalism 1	3
Journalism 31	3
Secretarial Science 1 or 2	2
Elective	2
Psychology 10	1
Physical Education	½
	17½

BETA	*Units*
Economics 2	3
Journalism 2	3
Journalism 16	3
Journalism 82A	2
Health 10	2
Psychology 23	3
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
Journalism 65	3
Journalism 67	3
Journalism 82B	2
Journalism 83A	2
Sociology 1	3
History 10	2
Physical Education	½
	15½

DELTA	*Units*
Journalism 61	3
Journalism 64	2
Journalism 82C	2
Journalism 83B	2
Sociology 2	3
Political Science 10	2
Elective	2
Physical Education	½
	16½

JOURNALISM

UNIVERSITY TRANSFER PROGRAM

The student who pursues the following program will be eligible for junior standing in state colleges.

FIRST YEAR

ALPHA	*Units*
English 1	3
Foreign Language	4
Journalism 1	3
Physical Science	5
Psychology 10	1
Physical Education	½
	16½

BETA	*Units*
English 2	3
Foreign Language	4
Journalism 16	2
Biological Science	5
Health 10	2
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
History 11	3	History 12	3
Humanities	5	Humanities	5
Journalism 82A	2	Journalism 2	3
Foreign Language	4	Journalism 82B	2
Social Science	3	Social Science	3
Physical Education	½	Physical Education	½
	17½		16½

LAW

Students planning to enter the legal profession should follow a general course of study in the lower division.

This curriculum is designed to meet the requirements for the Associate in Arts degree and the requirements for advanced standing in the College of Letters and Science, U.C.L.A.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Biological Science	3	Biological Science	3
English 1	3	Economics 1	3
Foreign Language	4	English 2 or Speech 1	3
Health 10	2	Foreign Language	4
History 5 or 11	3	History 6 or 12	3
Psychology 10	1	Physical Education	½
Physical Education	½		
	16½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Foreign Language	4	Business 1	4
Humanities	5 or 6	Humanities	5 or 6
Physical Science	3	Physical Science	3
Psychology 21	3	Sociology 1	3
Physical Education	½	Physical Education	½
	15½ or 16½		15½ or 16½

MATHEMATICS

The mathematics curriculum outlined below fulfills the requirements for the degree of Associate in Arts. It also meets the requirements for junior standing at U.C.L.A. This program presupposes that the student has had two years of high school algebra, one year of geometry, a semester of trigonometry and two years of foreign language, or equivalent college courses.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
French or German	4
*Mathematics 7A	3
Mathematics 21	3
Social Science	3
Physical Education	½
	17½

BETA	*Units*
English 2 or Speech 1	3
Mathematics 7B	3
French or German	4
Humanities	2 or 3
Physics 1 or 6	3 or 4
Physical Education	½
	15½ or 17½

SECOND YEAR

GAMMA	*Units*
French or German	4
Humanities	2
Mathematics 8A	3
Physics 2 or 7	3 or 4
History 5 or 11	3
Health 10	2
Physical Education	½
	17½ or 18½

DELTA	*Units*
Social Science	3
Biological Science	5
Mathematics 8B	3
History 6 or 12	3
Elective (Astronomy recommended)	3
Physical Education	½
	17½

MEDICINE

This curriculum presupposes the completion of the following subjects in high school:

	Units
Chemistry	1
English	3
Foreign Language	2
History	1
Mathematics	2
Physics	1

*Alternate: Mathematics 3—3 units. U.C.L.A. will allow 2 units for students who have had high school trigonometry. In this case, it would be necessary to take Mathematics 7A during the Beta Semester.

If intermediate algebra and trigonometry were not taken in high school, Mathematics 1 and 3 must be taken at Valley Junior College. The following course meets the requirements in pre-medical work of the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Health 10	2
Chemistry 1	5	Chemistry 2	5
English 1	3	English 2	3
French or German	4	French or German	4
Physics 6	4	Physics 7	4
Physical Education	½	Physical Education	½
	17½		18½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Chemistry 5	3	Chemistry 7 and 8	6
French or German	4	History 12	3
History 11	3	Humanities	2 or 3
Humanities	2 or 3	Zoology 2	5
Zoology 1	5	Physical Education	½
Physical Education	½		
	17½ or 18½		16½ or 17½

MUSIC

The Music Department offers two curricula leading to the A. A. degree:

1. General
2. University Transfer

It is highly recommended that students continue private study in their performing specialty during their attendance at the Valley College. Music majors are required to participate in one of the following organizations each semester: Band, Orchestra, Choir.

For the non-music major, a variety of offerings furnishes opportunity for expanding general cultural background.

GENERAL MUSIC CURRICULUM

The General Music Curriculum is designed for those students who wish to acquire the knowledge and fundamental skills essential to professional music activities. It also offers a general educational program which will better prepare them to meet the many responsibilities of community, home and family life.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
English 1	3	English 2 or Speech 1	3
Psychology 10	1	Health 10	2
Music 1	3	Music 2	3
Music 5	3	Music 6	3
Music 12A or 34A	2	Music 12B or 34B	2
Musical Organization	2	Musical Organization	2
Psychology 23	3		
Physical Education	½	Physical Education	½
	17½		15½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
*Electives	4	*Electives	4
Music 4	3	History 10	2
Music 7	3	Music 3	3
Music 16	2	Music 8	3
Musical Organization	2	Music 17	2
Political Science 10	2	Musical Organization	2
Physical Education	½	Physical Education	½
	16½		16½

UNIVERSITY TRANSFER MUSIC CURRICULUM

As the requirements at each university vary, it will be necessary for the student to become familiar with the prerequisites at the university of his choice. The College of Applied Arts at U.C.L.A. requires three year-courses in subjects other than music or courses used to satisfy the foreign language or science requirement. The following program satisfies the requirements for the Associate in Arts degree at Valley, and for upper division standing in the College of Applied Arts at U.C.L.A. It presupposes two years of high school foreign language.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
English 1	3	English 2 or Speech 1	3
Foreign Language or Science	4 or 3	Foreign Language or Science	4 or 5
Music 1	3	Music 2	3
Music 5	3	Music 6	3
Music 12A or 34A	2	Music 12B or 34B	2
Musical Organization	2	Musical Organization	2
Psychology 10	1	Physical Education	½
Physical Education	½		
	18½ or 17½		17½ or 18½

*Humanities courses are recommended.

SECOND YEAR

GAMMA	*Units*
Foreign Language or Science	4 or 3
History 5 or 11	3
Music 4	3
Music 7	3
Music 16	2
Psychology 21	3
Physical Education	½
	18½ or 17½

DELTA	*Units*
Psychology 22	3
Health 10	2
History 6 or 12	3
Music 3	3
Music 8	3
Music 17	2
Musical Organization	2
Physical Education	½
	18½

NURSERY EDUCATION

The care and education of pre-school-age children has moved from the still too prevalent concept of "child custodianship" to that requiring well trained young women who will know the developmental needs of children and their physical and mental growth, and who can develop in them habits and traits basic to their entire life.

Students completing the two-year program in Nursery Education will be recommended for the State of California certificate to teach in child-care centers and should be qualified to teach in private or co-operative nursery schools.

Essential to success in the Nursery Education program is a strong interest in people, especially an enthusiasm for little children two to eight years of age, a strong desire to enter child-care work, a pleasant voice, clear speech, a warm personality, and cultural appreciation. Patience and tact in handling the problems of young children and meeting the inquiries of parents are other assets.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Health 10	2
History 10, 11 or 5	2 or 3
Nursery 1	3
Nursery 11A	2
Psychology 21	3
Physical Education	½
	16½ or 17½

BETA	*Units*
Biological or Physical Science	3
Nursery 3	2
Nursery 11B	2
Political Science 10, History 6 or 12	2 or 3
Speech 1	3
Sociology 1	3
Physical Education	½
	15½ or 16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 38A	2	Art 38B	2
English 29	3	Elective	3
Nursery 7	2	Nursery 10	3
Nursery 12A	3	Nursery 12B	3
Sociology 2 or 15	3	Nursery 15	3
Physical Education 23	3	Psychology 23 or Elective	3
Physical Education	½	Physical Education	½
	16½		17½

NURSING

The pre-nursing program varies with the school or hospital where the student intends to complete training. The School of Nursing at U.C.L.A. offers a four-year curriculum leading to the Bachelor of Science degree and a Certificate in Nursing. Students interested in this program can profitably spend the first year at Valley College. It is recommended that they transfer to U.C.L.A. for the second year.

The curriculum presupposes that the student has had in high school one year each of algebra, geometry, and history, two years of foreign language, and three years of English.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Psychology 22	3
Psychology 21	3	English 2 or Speech 1	3
Chemistry 3	5	Zoology 15	5
English 1	3	Physics 8	4
History 11	3	Physical Education	½
Physical Education	½		
	15½		15½

OFFICE DIRECTION

This curriculum is outlined for students who wish to prepare for general office work such as calculating machine operators, file clerks, mail clerks and typists; and to enable them to pass civil service examinations for general clerical positions.

The first year of this course constitutes preparation for the job and leads to a Certificate of Completion.

If the student desires, he may take a second year, as outlined, and earn the Associate in Arts Degree.

FIRST YEAR

Alpha	*Units*	Beta	*Units*
Psychology 10	1	Secretarial Science 1 & 2	4
Business 5	2	Secretarial Science 21	3
Business 84	3	Secretarial Science 23	3
Business 96	1	Secretarial Science 24B	3
Mathematics 9	3	Secretarial Science 31A	2
Secretarial Science 20	2	Physical Education	½
Secretarial Science 24A	3		
Secretarial Science 30A	1		
Physical Education	½		
	16½		15½

SECOND YEAR

Gamma	*Units*	Delta	*Units*
Business 14	3	Business 67	3
English 1	3	Elective	2
Health 10	2	History 10	2
Political Science 10	2	Secretarial Science 3	2
Secretarial Science 24C	3	Secretarial Science 26	3
Secretarial Science 31B	2	Speech 1	3
Physical Education	½	Physical Education	½
	15½		15½

OPTOMETRY

The student interested in the field of Optometry should consult the school to which he plans to transfer regarding requirements.

The following curriculum is suggested for the student planning to complete his course at the University of California. It is assumed that the student completed algebra, geometry, trigonometry, physics, three years of a foreign language, and one year of chemistry in high school.

FIRST YEAR

Alpha	*Units*	Beta	*Units*
Psychology 10	1	Chemistry 2	5
Bacteriology 1	4	Foreign Language	4
Chemistry 1	5	Health 10	2
English 1	3	Mathematics 1 or 21	3
Foreign Language	4	English 2	3
Physical Education	½	Physical Education	½
	17½		17½

SECOND YEAR

GAMMA	*Units*
History 10	2
Mathematics 7A	3
Physics 6	4
Psychology 21	3
Zoology 15	5
Physical Education	½
	17½

DELTA	*Units*
Anatomy 1	3
Chemistry 7	4
Physics 7	4
Political Science 10	2
Psychology 22 or 23	3
Physical Education	½
	16½

PHARMACY

The University of California (University of California Medical Center, San Francisco) offers a five-year program leading to the Master's degree in Pharmacy. The first year of this program may be taken at Valley College, but the remaining four years must be taken in San Francisco.

The University of Southern California offers a six-year program leading to the degree of Doctor of Pharmacy (Pharm. D.) The two-year preparatory program may be completed at Valley, followed by four years at U.S.C.

Included among matriculation credits for either college should be: high school credit in Chemistry, 1 unit; Physics, 1 unit; Algebra, 1 unit; Trigonometry, ½ unit; German, French, or Latin, 2 units; Biology, 1 unit; Freehand Drawing, 1 unit.

The following program satisfies the requirements for the Associate in Arts degree at Valley College, and the requirements for admission to the School of Pharmacy at U.S.C.

FIRST YEAR

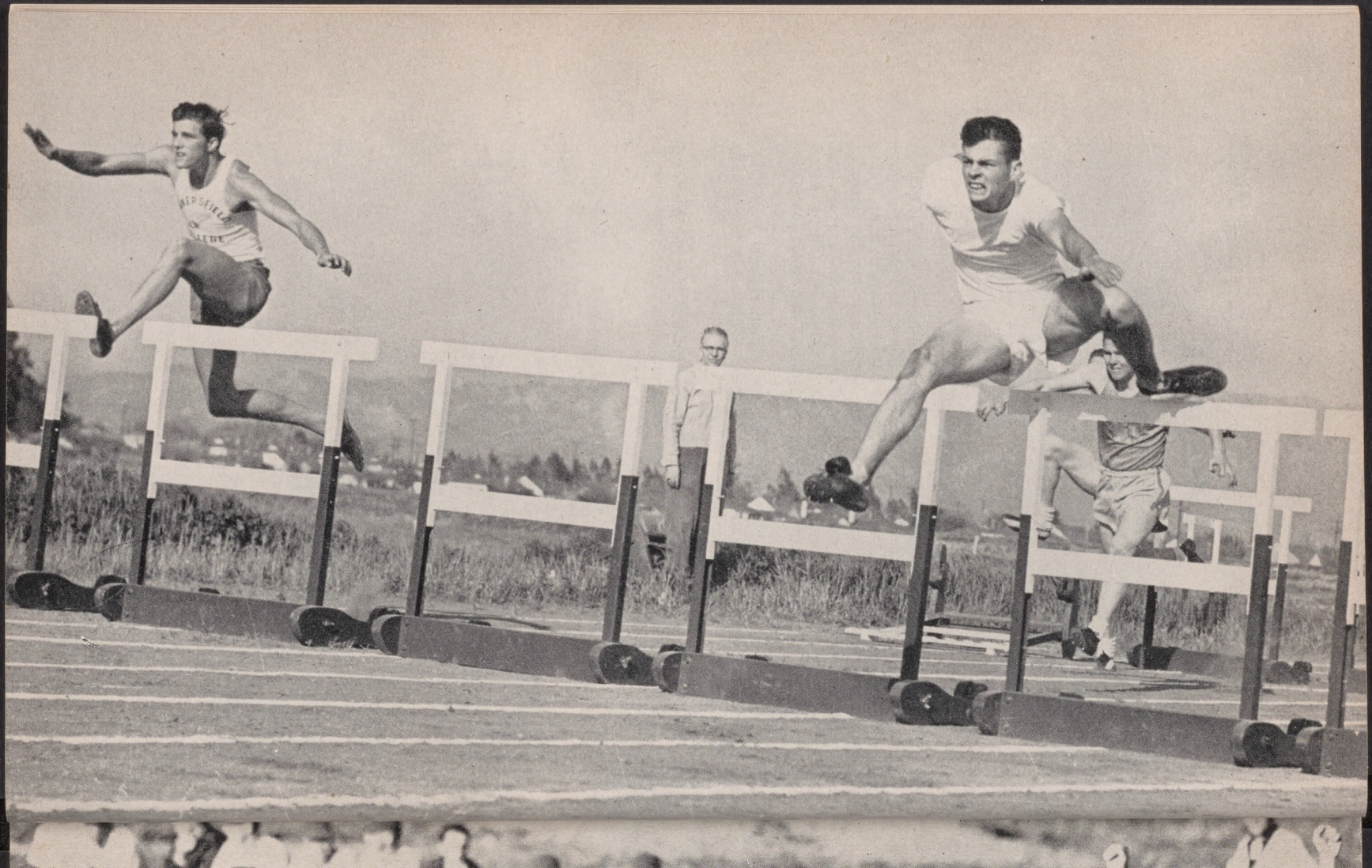
ALPHA	*Units*
Psychology 10	1
Chemistry 1	5
English 1	3
History 1	3
Mathematics 1	3
Physical Education	½
	15½

BETA	*Units*
Psychology 21	3
Chemistry 2	5
English 2	3
History 2	3
Political Science 10	2
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*
History 10	2
Health 10	2
Physics 6	4
Zoology 1	5
Electives	4
Physical Education	½
	17½

DELTA	*Units*
Physics 7	4
Zoology 2	5
Electives	7
Physical Education	½
	16½



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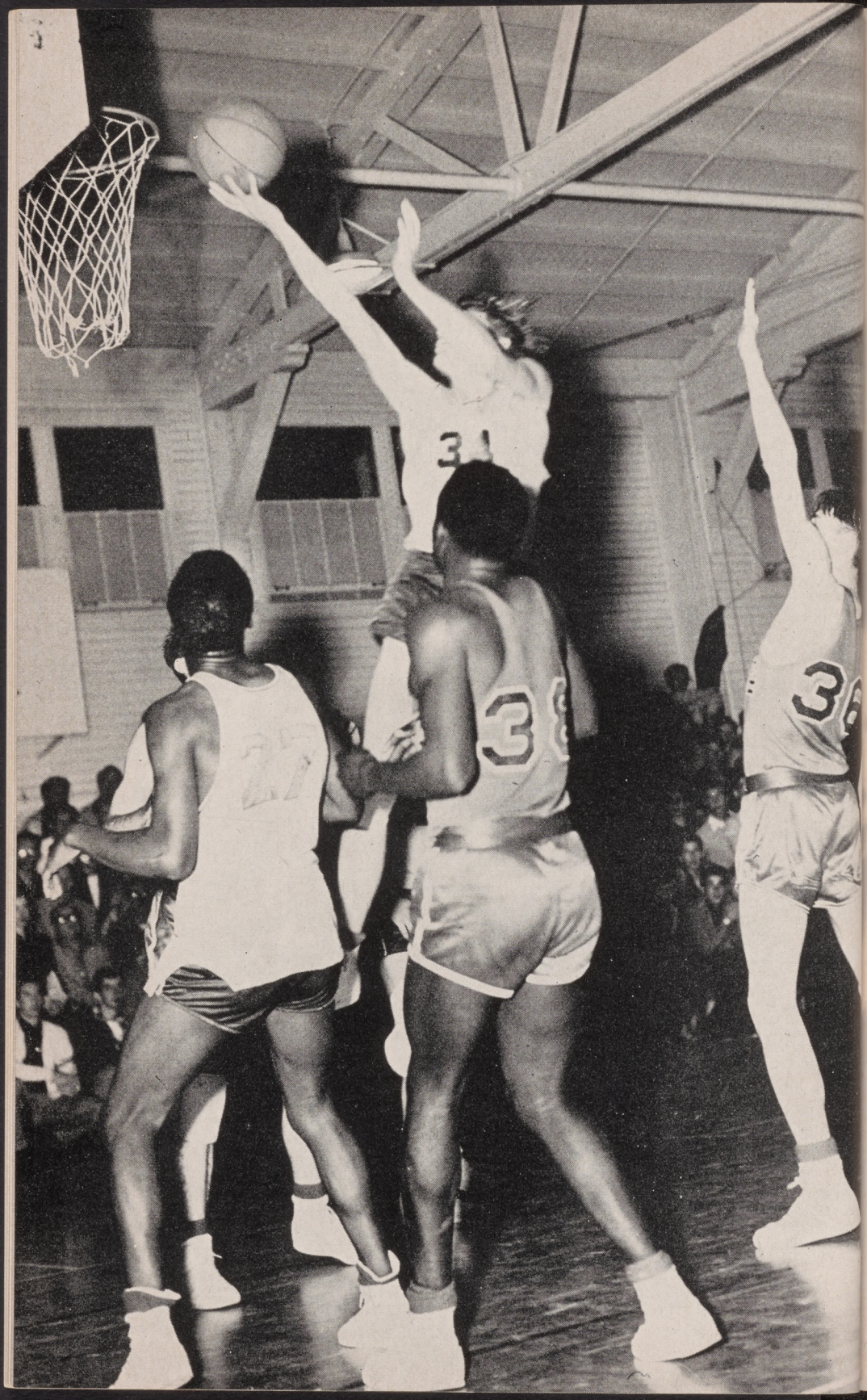


PHYSICAL EDUCATION

(MEN)

This course is designed for physical education majors who plan to obtain a degree from a four-year college. It parallels the first two years' work at U.C.L.A. Students who contemplate attending institutions other than U.C.L.A. should check carefully the requirements of the school of their choice.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	English 2 or Speech 1	3
Chemistry 3	5	Health 23	2
English 1	3	History 12 or 6	3
Health 10	2	Psychology 21	3
History 11 or 5	3	Physical Education 19	3
Physical Education 24A-25A	1½	Physical Education 24B-25B	1½
Physical Education Activity	½	Physical Education Activity	½
	16		16

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Elective	2	Anatomy 1	3
Psychology 22	3	Electives	6
Zoology 15	5	Physical Education 30	2
Physical Education 21	3	Physical Education 23	3
Physical Education 24C-25C	1½	Physical Education 24D-25D	1½
Physical Education Activity	½	Physical Education Activity	½
	15 or 16		16

PHYSICAL EDUCATION

(WOMEN)

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	English 2	3
Physical Education 25A	3	History 5 or 11	3
English 1	3	Chemistry 3	5
History 5 or 11	3	Physical Education 25B	3
Health 11	3	Elective	2
Elective	3	Physical Education Activity	½
Physical Education Activity	½		
	16½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Psychology 21	3	Anatomy 1	3
Zoology 15	5	Psychology 22	3
Physical Education 25C	3	Physical Education 19	3
Elective and Minor	5	Elective and Minor	6
Physical Education Activity	½	Physical Education Activity	½
	16½		15½

PHYSICS

The Physics curriculum outlined below fulfills the requirements for the degree of Associate in Arts and provides the lower division preparation for a major in physics at the University of California at Los Angeles. It does not provide for all the lower division requirements of the College of Letters and Science. These would have to be taken in summer session or in upper division work. It presupposes that the student has had two years of high school algebra, one year of geometry, a semester of trigonometry, one year of chemistry, one year of physics, and one year of mechanical drawing.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Biological Science	3
Biology 1	3	English 2	3
English 1	3	French or German	4
French or German	4	Mathematics 7B	3
Mathematics 7A	3	Physics 1	3
Mathematics 21	3	Physical Education	½
Physical Education	½		
	17½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Chemistry 1	5	Chemistry 2	5
History 5 or 11	3	Health 10	2
Mathematics 8A	3	History 6 or 12	3
Physics 2	3	Mathematics 8B	3
Physics 3	3	Physics 4	3
Physical Education	½	Physical Education	½
	17½		16½

POLICE SCIENCE

The Police Science curriculum offers in-service training for police officers. It is also a training program for prospective officers. A civil service examination is necessary before appointment in the public service. Graduates of the police science course are not assured of employment until

they have been successful in placing on a civil service list. All students should take a physical examination and meet certain minimum requirements before enrolling in the program.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Elective	2
Elective	2	Health 23	2
English 1	3	History 10	2
Police Science 1	2	Police Science 2	2
Police Science 3	2	Police Science 4	2
Psychology 23	3	Psychology 21	3
Secretarial Science 1	2	Speech 1, English 2 or Journalism 1	3
Physical Education	½	Physical Education	½
	15½		16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Health 10	2	Police Science 8	2
Elective	3	Police Science 9	2
Police Science 7	2	Police Science 11	4
Police Science 5	2	Political Science 10	2
Police Science 6	2	Psychology 25	3
Police Science 10	3	Sociology 2	3
Sociology 1	3	Physical Education	½
Physical Education	½		
	17½		16½

RADIO (THEATER ARTS)

The following program satisfies the requirements for upper division standing in the College of Applied Arts at U.C.L.A., where the student is enrolled as a radio major in the Theater Arts Department. This program presupposes two years of foreign language, one year of algebra, and one year of geometry in high school.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Health 10	2
English 1	3	Theater Arts 7	3
Theater Arts 1A	3	English 2	3
Foreign Language	4	Foreign Language	4
Speech 1	3	Journalism 1	3
Theater Arts 3A	2	Theater Arts 3B	2
Physical Education (Body Mech.)	½	Physical Education (Mod. Dance)	½
	16½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Theater Arts 8	3	Theater Arts 9	3
History 11	3	History 12	3
Foreign Language	4	English 3	3
Psychology 21 or Philosophy 1	3	Psychology 23 or Philosophy 2	3
Theater Arts 3C	2	Theater Arts 3D	2
Theater Arts 2	2	Speech 7	3
Physical Education	½	Physical Education	½
	17½		17½

RECREATIONAL LEADERSHIP

This curriculum trains young men and women for employment at public playgrounds and recreation centers. Graduates of the course are also well qualified for positions as camp counselors. Under faculty guidance substitutions may be made in the curriculum to train the student for other types of social service work.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Elective	3
History 10	2	English 29	3
Elective	3	Physiology 1	3
English 1	3	Political Science 10	2
Physical Education 21	3	Physical Education 19	3
Physical Education 23	3	Physical Education 24B	1½
Physical Education 24A	1½	Physical Education Activities	½
Physical Education Activities	½		
	17		16

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Art 38	2	Health 23	2
Health 10	2	Music 1	3
Anatomy 1	3	Sociology 2	3
Psychology 25	3	Physical Education 22	3
Sociology 1	3	Physical Education 24D	1½
Physical Education 24C	1½	Physical Education 28	2
Physical Education 12	1	Physical Education 29	1
Physical Education Activities	½	Physical Education Activities	½
	16		16

ONE-YEAR SECRETARIAL SCIENCE COURSE

This course offers modern intensive training for the student who desires secretarial employment at the earliest possible date. Actually, ten months is the length of the course (less than 200 days) for the student with average aptitude.

The student has a choice of two stenography methods—Simplified Gregg Shorthand or Stenotype Machine Shorthand.

A Certificate of Completion is available to students who complete the course.

Secretarial work offers unlimited opportunities for both young men and young women. Many of our most prominent men executives once were secretaries, where they were in a strategic position to learn the business, to meet top executives, and to be exposed to the inner secrets of industry.

SIMPLIFIED GREGG SHORTHAND METHOD

ALPHA	*Units*
Secretarial Science 1 and 2	4
Secretarial Science 10 and 11	10
Secretarial Science 20	2
Secretarial Science 30A or 31A, or Business 96	1 or 2
Physical Education	½
	17½ or 18½

BETA	*Units*
Secretarial Science 3	2
Secretarial Science 12 and 13	10
Secretarial Science 21	3
Secretarial Science 26	2
Physical Education	½
	17½

STENOTYPE METHOD

ALPHA	*Units*
Business 14	3
Secretarial Science 1 and 2	4
Secretarial Science 9A	5
Secretarial Science 20	2
Secretarial Science 30A or 31A, or Business 96	1 or 2
Physical Education	½
	15½ or 16½

BETA	*Units*
Secretarial Science 3	2
Secretarial Science 9B & 9C	10
Secretarial Science 21	3
Secretarial Science 26	2
Physical Education	½
	17½

TWO-YEAR SECRETARIAL SCIENCE COURSE

Many secretarial positions require a professional employee with more than average cultural background. The two-year course in Secretarial Science provides this broad background, leads to a junior executive career, and earns an Associate in Arts degree for the graduate.

In order to make a second year of college possible and profitable for the secretarial student, the first year of the course provides intensive shorthand training, while the second year provides time for part-time employment (accredited) using this knowledge, plus part-time academic study.

The student may choose either the Simplified Gregg Shorthand or the Stenotype Machine Shorthand.

SIMPLIFIED GREGG SHORTHAND METHOD

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Secretarial Science 1 and 2	4
Secretarial Science 10 and 11	10
Secretarial Science 20	2
Physical Education	½
	17½

BETA	*Units*
Secretarial Science 3	2
Secretarial Science 12 and 13	10
Secretarial Science 21	3
Secretarial Science 26	2
Physical Education	½
	17½

SECOND YEAR

GAMMA	*Units*
Business 5	2
English 1	3
History 10	2
Secretarial Science 19	5
Secretarial Science 32A	4
Physical Education	½
	16½

DELTA	*Units*
Health 10	2
Political Science 10	2
Secretarial Science 23	3
Secretarial Science 30A	1
Secretarial Science 32B	4
Speech 1	3
Physical Education	½
	15½

STENOTYPE METHOD

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
Business 14	3
Secretarial Science 1 and 2	4
Secretarial Science 9A	5
Secretarial Science 20	2
Secretarial Science 30A, 31A, or Business 96	1 or 2
Physical Education	½
	16½ or 17½

BETA	*Units*
Secretarial Science 3	2
Secretarial Science 9B & 9C	10
Secretarial Science 21	3
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*
Business 5	2
English 1	3
History 10	2
Secretarial Science 19	5
Secretarial Science 32A	4
Physical Education	½
	16½

DELTA	*Units*
Health 10	2
Political Science 10	2
Secretarial Science 23	3
Secretarial Science 26	2
Secretarial Science 32B	4
Speech 1	3
Physical Education	½
	16½

SOCIAL WELFARE

The School of Social Welfare at U.C.L.A. offers a two-year graduate program in social welfare. A program in presocial welfare is desirable as preparation for graduate study.

The curriculum below is designed to meet the requirements for the Associate in Arts degree, and the requirements for advanced standing in the College of Letters and Science, U.C.L.A.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Foreign Language	4
Anthropology 1	3
History 5 or 11	3
Biology 1	3
Physical Education	½
	17½

BETA	*Units*
Anthropology 2	3
Foreign Language	4
History 6 or 12	3
Humanities	4
Biology 2	3
Physical Education	½
	17½

SECOND YEAR

GAMMA	*Units*
Foreign Language	4
Humanities	3
Physical Science	3
Psychology 21	3
Political Science 1	3
Physical Education	½
	16½

DELTA	*Units*
Health 10	2
Humanities	3
Physical Science	3
Psychology 22	3
Political Science 2	3
Speech 1	3
Physical Education	½
	17½

SPEECH

The following program satisfies the requirements for the Associate in Arts degree at Valley Junior College and for upper division standing in the College of Letters and Science at U.C.L.A.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Speech 1	3
Foreign Language	4
Physical Science	3
Music 18	2
Physical Education	½
	16½

BETA	*Units*
English 2	3
Speech 2	3
Foreign Language	4
Physical Science	3
Music 19	2
Physical Education	½
	15½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Speech 3	3	Speech 4	3
English 9	3	English 10	3
Foreign Language	4	Health 10	2
Psychology 21	3	Psychology 22	3
History 5 or 11	3	History 6 or 12	3
Physical Education	½	Anthropology 1	3
		Physical Education	½
	16½		17½

SURVEYING

The surveying curriculum has been designed to give the graduate sufficient engineering fundamentals and practical skills to enable him to enter the profession as a technical assistant in surveying, materials testing, inspection or drafting.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Engineering 2	3
Engineering 1	3	Engineering 3	3
Engineering 12	2	English 2 or Speech 1	3
Engineering 48	1	Mathematics 1 or 21	3
English 1	3	Chemistry 3	5
Mathematics 3 or 1	3	Physical Education	½
History 10	2		
Physical Education	½		
	15½		17½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Engineering 15	3	Engineering 8	3
Engineering 73	2	Engineering 74	2
Engineering 80	2	Engineering 79	3
Physics 6	4	Physics 7	4
Mathematics 67	1	Health 10	2
Political Science 10	2	Elective	2
Physical Education	½	Physical Education	½
	14½		16½

THEATER ARTS

PLAN A

This Theater Arts curriculum is designed to meet the requirements for the Associate in Arts degree and the requirements for advanced standing in the College of Applied Arts of the University of California at Los Angeles.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
Foreign Language or Natural Science	4 or 3
History 1	3
Theater Arts 1A	3
Theater Arts 2	2
Theater Arts 3A	2
Physical Education	½
	18½ or 17½

BETA	*Units*
English 2	3
Foreign Language or Natural Science	4 or 5
Health 10	2
History 2	3
Theater Arts 1B	3
Theater Arts 3B	2
Physical Education	½
	17½ or 18½

SECOND YEAR

GAMMA	*Units*
English 3	3
Foreign Language or Natural Science	4
Psychology 21	3
Theater Arts 10 or Speech 3	2 or 3
Theater Arts 3C	2
Theater Arts 5A	3
Physical Education	½
	17½ or 18½

DELTA	*Units*
English 4	3
History 10	2
Political Science 10	2
Psychology 22	3
Theater Arts 3D	2
Theater Arts 5B	3
Theater Arts 6	3
Physical Education	½
	18½

NOTE: The person who plans to participate in dramatic productions should also take Theater Arts 11, Elementary Theater Laboratory.

THEATER ARTS

PLAN B

This Theater Arts curriculum is designed to meet the requirements for the Associate in Arts degree and to provide training for entry directly into stage, radio, or television work after junior college graduation.

FIRST YEAR

ALPHA	*Units*
Psychology 10	1
English 1	3
History 1	3
Psychology 23	3
Theater Arts 1A	3
Theater Arts 2	2
Theater Arts 3A	2
Physical Education	½
	17½

BETA	*Units*
English 2	3
History 2	3
Theater Arts 1B	3
Theater Arts 3B	2
Theater Arts 7	3
Theater Arts 10	2
Physical Education	½
	16½

SECOND YEAR

GAMMA	*Units*	DELTA	*Units*
Health 10	2	Political Science 10	2
History 10	2	Theater Arts 3D	2
Music 18	2	Theater Arts 5B	3
Theater Arts 3C	2	Theater Arts 6	3
Speech 3	3	Theater Arts 9	3
Theater Arts 5A	3	Elective	3
Theater Arts 8	3	Physical Education	½
Physical Education	½		
	17½		16½

NOTE: The person who plans to participate in dramatic productions should also take Theater Arts 11, Elementary Theater Laboratory.

VETERINARY

The program shown below is the course of study for the first two years of Veterinary Science. This is followed by two years at the University of California College of Agriculture at Davis, on the completion of which the Bachelor of Science degree is obtained. Two more years in the Graduate School at Davis are necessary to obtain the degree of Doctor of Veterinary Medicine.

It is assumed that the student has completed one unit of high school chemistry, one unit of physics, two units of algebra, and ½ unit of trigonometry.

FIRST YEAR

ALPHA	*Units*	BETA	*Units*
Psychology 10	1	Chemistry 2	5
Chemistry 1	5	English 2 or Speech 1	3
*Elective	3	History 6 or 12	3
English 1	3	Physics 6	4
History 5 or 11	3	Physical Education	½
Physical Education	½		
	15½		15½

SECOND YEAR

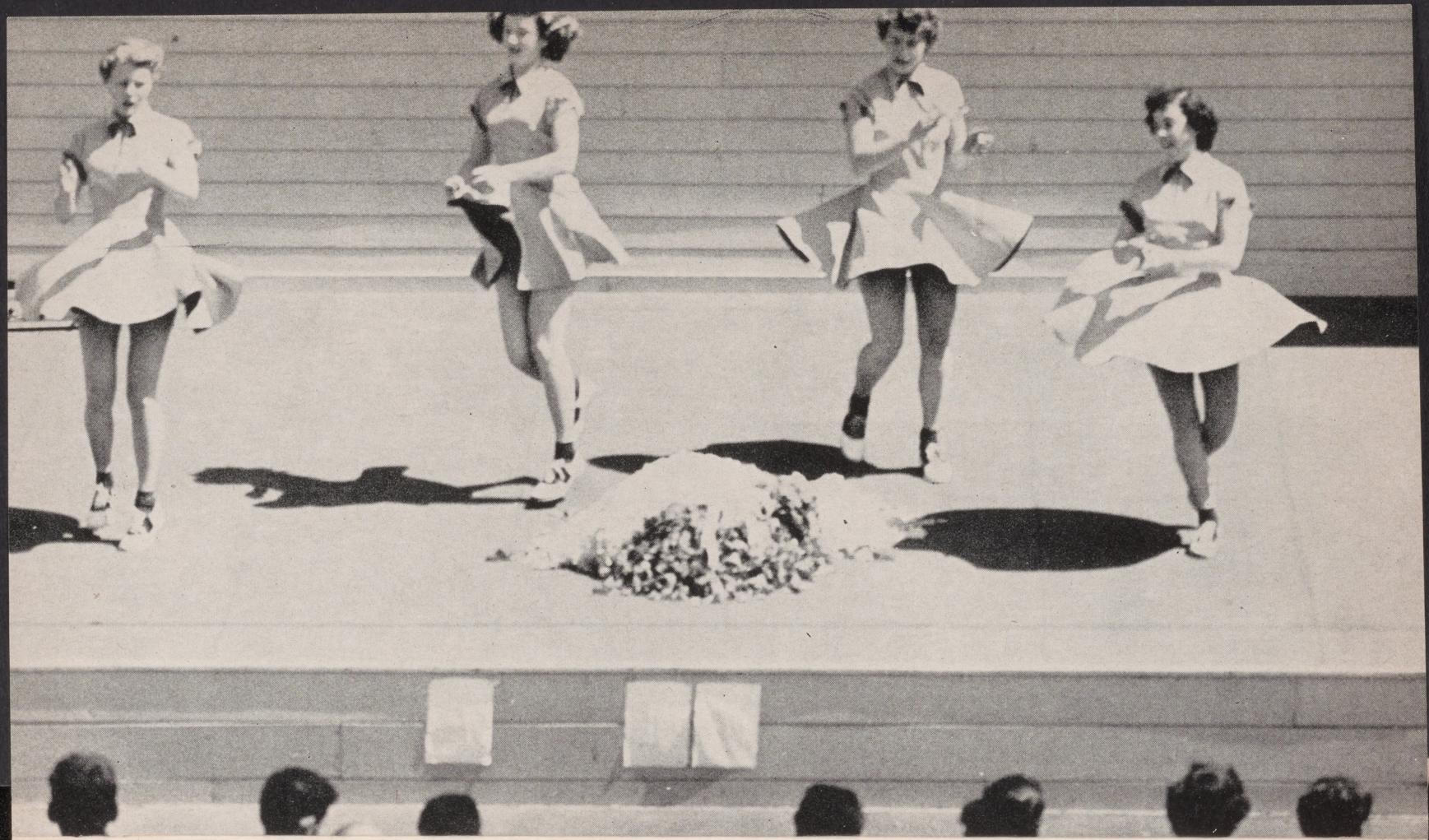
GAMMA	*Units*	DELTA	*Units*
Chemistry 5	3	*Electives	4
*Elective	3	Health 10	2
Physics 7	4	Zoology 2	5
Zoology 1	5	Chemistry 7	4
Physical Education	½	Physical Education	½
	15½		15½

*Courses selected from the fields of social sciences, foreign languages, philosophy, fine arts, and literature, and/or additional courses in English, speech and mathematics.

PART III
DESCRIPTION OF COURSES

On the following pages will be found a brief description of the courses offered at Valley College. The title of the course and the number of units per semester are shown on the first line. When the statement "a two-semester course" is included on the first line it indicates that the student should take the course for two semesters. In those instances where the course number is followed by ABCD, the student may take the course for one, two, three, or four semesters.

Prerequisites are indicated if the course requires prerequisites. The course description also designates the number of lecture and laboratory hours if instruction includes a combination of the two.



ANATOMY

1—Human Anatomy. *3 units credit.*

Lecture, 2 hours; laboratory, 3 hours.

A study of the structure of the systems of the human body. Laboratory work involves a detailed dissection of the cat. Required for nursing and physical education majors.

Parallels Zoology 25, U.C.L.A.

ANTHROPOLOGY

1—General Anthropology. *3 units credit.*

Physical anthropology; the relation of man to the animal world; the evolution of man; fossil and prehistoric man; racial classification; contemporary racial distribution; theories of race; present-day interracial problems.

Parallels Anthropology 2, U.C.L.A.

2—General Anthropology. *3 units credit.*

A study of the nature and varieties of human culture; cultural change and growth; invention, industry; social organization; the family; religion, language, folklore, myth, ritual, and other topics.

Parallels Anthropology 2, U.C.L.A.

ARCHITECTURE

1—Architectural Drawing. *3 units credit.*

Lecture, 1 hour; laboratory, 5 hours.

Basic principles of Industrial Design are learned by drawing a number of plates in both color and black and white, to exercise the imagination and develop an ability to design equipment for the use and comfort of man. Projects will include designing of furniture, tools, and small buildings. The making of scale models is also a part of the course.

Parallels Architectural Drawing 1, University of California (Berkeley)

2—Architectural Drawing. *3 units credit.*

Prerequisite: Architecture 1.

Lecture, 1 hour; drafting, 5 hours.

Further development of drafting skill and fundamental understanding of construction principles through the preparation of door, window, and cabinet details.

3—Architectural Rendering. *1 unit credit.*

Laboratory, 3 hours.

Representation of architectural subjects in various media, in pencil.

51—Design of the Small Home. *3 units credit.*

Lecture, 2 hours; laboratory, 4 hours.

Concerned chiefly with the functional aspects in the design of a small home. Basic floor plans are drawn to scale to familiarize the student with the symbols used in house plans, and the interrelationship of the various areas of a house.

ART

1A-1B—Art and Civilization. A two-semester subject. *2 units credit each semester.*

An appreciation course including a survey of the origin and function of architecture, painting, sculpture and crafts from prehistoric to contemporary civilization.

1st semester—Prehistoric through Early Christian.
2nd semester—Romanesque through present time.

Parallels Art 11A-11B, U.C.L.A.

2A-2B—Design. A two-semester subject. *2 units credit each semester.*

A fundamental and prerequisite course for all art majors and anyone interested in creative art expression. A study of the organization of the elements and principles common to all visual arts. Problems in composition.

Parallels Art 6A-6B, U.C.L.A.

4A—Perspective and Freehand Drawing. *2 units credit.*

Problems in representative drawing using various rendering techniques in black and white media. A basic course planned for art and architecture students.

Parallels Art 16A, U.C.L.A.

4B—Drawing and Beginning Painting. *2 units credit.*

Prerequisite: Art 2A, 4A.

Drawing and painting of form in black and white, transparent and opaque color. Problems in composition of still life, landscape, animals, and figures.

Parallels Art 2A, U.C.L.A.

7A-7B—Intermediate Design. A two-semester subject. *2 units credit each semester.*

Prerequisite: Art 2A, 2B.

Experiments with various types of materials in two- and three-dimensional design. Study and application of repeat-pattern design on fabrics.

Parallels Art 7A-7B, U.C.L.A.

14A—Painting. *2 units credit.*

Prerequisite: Art 2A and 2B, 4A and 4B.

Continuation of Art 4B. Advanced problems in composition. Experiments in less common painting methods—egg tempera, casein, etc.

Parallels Art 2B, U.C.L.A.

14B—Painting. *2 units credit.*

Prerequisite: Art 2A and 2B, 4A and 4B.

Emphasis on painting in watercolor technique.

Parallels Art 3A, U.C.L.A.

15—Advertising Art. *2 units credit.*

A study of basic lettering forms with regard to the various styles of the alphabet, their proportion, and spacing. Laboratory work stresses the adaptation of lettering to advertising layout and poster.

A course for all who will be required to do lettering or poster work of any kind.

17—Advanced Advertising Art. *2 units credit.*

Prerequisite: Art 15.

This is a continuation of Art 15 with emphasis on design, presentation, and technique. The problems consist of graphic design assignments in selected advertising media.

18—Commercial Design for Advertising. *2 units credit.*

Prerequisite: Art 17.

Students are given professional practice in the technique and presentation of advertising art assignments for selected media.

21A—Appreciative Study of Apparel. *2 units credit.*

Social and personal significance of clothing; interaction between temperament, appearance, and apparel.

Parallels Art 21A, U.C.L.A.

21B—Home Furnishing. *2 units credit.*

Lectures, discussions and field trips planned to enable the student to understand the problems of interior decorating. Study of color, furniture arrangement, selection of furnishings for the home in traditional and contemporary styles.

Parallels Art 21B, or Home Economics 15, U.C.L.A.

22—Three-Dimensional Design. *2 units credit.*

Prerequisite: Art 2A and 2B, 4A.

A study is made of three-dimensional design for application to the field of window display, counter display, industrial design, interior and architecture. Models are constructed in various materials.

Parallels Art 22, U.C.L.A.

24—Figure Sketching. *2 units credit.*

A basic simplified study of the human figure with variations and techniques as used in fashion illustration and the apparel industry.

Parallels Art 24, U.C.L.A.

35AB—Ceramics. *2 units credit each semester.*

Prerequisite: Art 2A.

Students practice the various methods of building pottery, glazing and firing.

38AB—Craft Workshops. *2 units credit each semester.*

A course in general craft work offered for those students interested in recreational leadership, church activity leadership, boys' and girls' clubs, summer camps, occupational therapy, or development of a hobby.

Parallels Art 27A-27B, U.C.L.A.

42—Introduction to Art. *3 units credit.*

Not open to students whose major is art. An exploratory course to develop an understanding and appreciation of art as an aspect of all activities of daily life.

Parallels Art 10, U.C.L.A.

44—Life Drawing. *2 units credit.*

Prerequisite: Art 4B.

Drawing from life in various media; quick sketch and long poses.

Parallels Art 44, U.C.L.A.

45ABCD—Technical Illustration. *4 units credit each semester.*

Lecture, 2 hours; laboratory, 4 hours.

This course offers training for production illustration, with particular attention to the principles of isometric. Included is the transposition of orthographic views to three-dimensional isometric drawings for various industrial operations.

46—Introduction to Scientific Illustration. *2 units credit.*

Studies in the development of the ability to draw convincingly those forms relevant to the science courses involved; and an understanding of various media for reproduction.

Parallels Art 45, U.C.L.A.

47AB—Sketching for Technical Illustration. *2 units credit each semester.*

A laboratory course designed to develop skills needed in production illustration. The emphasis is directed toward facility in free-hand sketching.

ASTRONOMY

1—Elementary Astronomy. *3 units credit.*

The general principles and the fundamental facts of astronomy.

Parallels Astronomy 1A, U.C.L.A.

BACTERIOLOGY

1—General Bacteriology. *4 units credit.*

Lecture, 3 hours; laboratory, 6 hours.

An introduction to the study of bacteria and other microscopic animal life. Bacterial metabolism and activities; their culture, growth, variations, and classification. Bacteria of soil, air, water, milk and other foods. Microbiology of infectious disease with special reference to antigen-antibody reactions.

Parallels Bacteriology 1, U.C.L.A.

BIOLOGY

1—General Biology. *3 units credit.*

Lecture, 3 hours; laboratory and demonstration, 2 hours.

This is a survey course including fundamental principles of biological science. Instruction is illustrated by studies of structure and function of living organisms, both plant and animal. This course combined with Biology 2 will meet the life science requirement of most colleges and universities.

Not open to students who have credit in Botany 1 or Zoology 1.

2—General Biology. *3 units credit.*

Lecture, 2 hours; laboratory and demonstration, 3 hours.

Prerequisite: Biology 1 or its equivalent.

This course completes the life-science requirement when it follows Biology 1. This course is designed to meet the needs of prospective teachers, recreational leaders, camp counselors, and others interested in nature study. A study of environmental relationships of living things, life zones, and identification of California plants and animals, as well as their economic importance.

BOTANY

1—General Botany. *5 units credit.*

Lecture, 3 hours; laboratory, 6 hours.

An introduction to the plant sciences with emphasis on structure and processes of plants.

Parallels Botany 1, U.C.L.A.

2—General Botany. *5 units credit.*

Lecture, 3 hours; laboratory, 6 hours; one required field trip.

Prerequisite: Botany 1.

A study of the major plant groups, including identification of cultivated and native species of plants.

Parallels Botany 2, U.C.L.A.

BUSINESS

(For other business courses see "Secretarial Science")

1—Principles of Accounting. *4 units credit.*

Lecture, 2 hours; laboratory, 2 hours; 1 hour quiz.

Fundamental principles of double-entry bookkeeping and accounting. Includes study of accounting and statements, the accounting cycle, accounting for interest and accrued and deferred items, asset valuation, and related problems in recording transactions.

Parallels B.A. 1A and 2, U.C.L.A.

2—Principles of Accounting. *4 units credit.*

Prerequisite: Business 1.

Lecture, 4 hours; laboratory, 1 hour.

Study of accounting for payrolls and taxes; partnership accounting; corporation accounting; departmental and branch accounting; manu-

facturing and cost accounting; analysis and interpretation of accounting statements; supplementary statements.

Parallels B.A. 1B and 2, U.C.L.A.

3—ACCOUNTING PRACTICE. *2 units credit.*

Prerequisite: Business 2 or equivalent.

A study of modern accounting procedure, with special emphasis upon technique rather than theory, is the main aim of this course. A variety of loose-leaf forms is used, all of which are identical with those commonly found in actual business practice. This course affords the student practice in recording transactions of merchandising business using modern forms according to present-day practices. It is designed to develop technical bookkeeping skills to a degree that will enable the student to hold a responsible bookkeeping or junior accounting position.

5—BUSINESS ORIENTATION. *2 units credit.*

An introductory, non-technical course in business, designed for both business and non-business majors. A study of the functions and nature of the modern business enterprise, with emphasis on the social implications of business.

14—RECORD KEEPING FOR SMALL BUSINESS. *3 units credit.*

(Credit not given for both Business 1 and 14.)

A course specially designed for business management and secretarial science majors, with emphasis upon accounting systems for the small business. Internal control of all business functions is stressed, including cash receipts and disbursements, sales, purchases, banking practices, negotiable instruments, payroll, adjustments, preparation and interpretation of accounting statements. Actual business forms are used in the practice assignments. Completion of this course should enable the student to keep a set of books for any small business.

49—ORIENTATION IN BUSINESS. A one-semester subject. *2 units credit.*

Designed for Alphas in business and for students of other departments who wish general information about business. This is a survey course to acquaint the student with the various phases of business, with particular emphasis on the opportunities and requirements of each field.

51 ABCD—PUBLIC ACCOUNTING. *3 units credit each semester.*

A refresher course for accountants planning on taking the State Certified Public Accountant examination.

53—ADVANCED ACCOUNTING. *3 units credit.*

Prerequisite: Business 1, 2, and Math. 2, or consent of instructor.

Theory and practice, essentially problem technique. Topics include working papers, valuation of current and fixed assets, consignments, installment sales, intangible assets, investments, funds and reserves, corrections, analysis of statements, application of funds.

54—ADVANCED ACCOUNTING. *3 units credit.*

Prerequisite: Business 53.

Theory and practice, essentially problem technique. Topics include ventures, insurance, statement of affairs, receivership accounts,

branch accounts, foreign exchange, estate accounting, budgetary procedures, public accounts, bank and stock brokerage accounting.

65—Tax Accounting: *3 units credit.*

Prerequisite: Business 2 or consent of instructor.

Study of tax laws, accounting procedures, and preparation of required returns for Federal and California State Sales and Payroll Taxes, and for Federal and California State Income Taxes as they apply to individuals, partnerships, estates and trusts.

66—Principles of Marketing. *3 units credit.*

A study of the distribution of commodities from producer to retailer. Emphasis is placed upon the classification of commodities, function of the various distributors (middlemen), channels of distribution, buying motives, and costs of distribution.

67—Selling. *3 units credit.*

Fundamental principles of wholesale and retail selling. Each student selects a sales proposition to analyze and sell to a qualified customer.

A practical course in salesmanship for all.

68—Advertising. *3 units credit.*

This course covers the principles and practices of advertising including the study of the purposes of advertising, the principles of copy, layout, mechanics, media, and a good campaign.

69—Retailing. *3 units credit.*

The course includes a study of buying methods, credit and installment buying policies, adjustment procedures, store organization, location and layout of departments, economics of merchandising, analysis of present-day trends in merchandising policies and their causes.

70—Marketing Problems. *2 units credit.*

Prerequisite: Business 66.

The course covers the executive aspects of marketing, including the problems of advertising, of sales, and store management.

73—Principles of Finance. *3 units credit.*

The methods of procuring capital for the organization, expansion, and maintenance of a business enterprise.

74—Advanced Selling. *4 units credit.*

Frequent oral reports are given on subjects related to the student's merchandising experiences and needs; sales manuals are prepared and complete demonstration sales, based on the manual, are presented. Studies are made of trade journals for recent findings and predictions on merchandising trends. A one-hour weekly conference is devoted to discussion of problems met on the job.

84—Small Business Management. *3 units credit.*

This course is designed to teach the student the organization and operation of small business; the analysis of one's own personal qualifications for managing small business; methods of planning the budget, selection of the location, laying out the store, and

decoration of the interior; essential records to keep; merchandise to buy; and how to promote business.

86—Personnel Management. *3 units credit.*

A study of the problems of the administration of human relations in business. Historical development and objectives of personnel management, individual differences, labor budgeting, job analysis, recruitment, selection, placement, training, transfer and promotion, wage and salary administration, hours of work, accident prevention, employee health, personnel services, motivation, morale, union-management relations.

89—Problems of the Consumer. *3 units credit.*

A study of the problems of consumption, with reference to guidance and control of consumer choice. Protection and assistance in consumption, methods of budgeting and record keeping, and relation of consumption to the economic system.

96—Machine Bookkeeping. *1 unit credit.*

The use of modern posting and billing and other machines and equipment used in the accounting processes of a business or industry.

110—Textiles. *3 units credit.*

Swatch books are prepared and kept by each student in connection with the study of textile fibers, identifying tests for fibers, and finishing processes. Practical application of the knowledge gained is applied to the merchandise with which the student may come in contact in his store experience.

111—Technique of Retail Selling. *4 units credit.*

The course includes personality analysis, with the use of individual rating sheets. Analysis of techniques for getting along with fellow employees and customers; fundamentals of retail salesmanship, display, and demonstration of merchandise; practice in the presentation of demonstration sales.

112—Color, Line, and Design. *3 units credit.*

A practical study and application of the basic principles of art as they apply to the needs of the salesperson in his work. A correlation of the principles and trends of fashion will be made through all parts of the course.

149—Public Relations 1. *1 unit credit.*

A practical course in the principles of school public relations.

150—Fundamentals of Retail Credit. *1 unit credit.*

A practical study of the basic principles of retail credit.

151—Fundamentals of Collection. *1 unit credit.*

A practical study of the methods and principles of collection.

CHEMISTRY

(A refundable $1.35 breakage card is required for each laboratory course.) Preparation for the major, see page 30.

1—General Chemistry. *5 units credit.*

Prerequisite: High school chemistry or Chemistry 3, either with grade of C or better; three years of high school mathematics or Mathematics 50, 63, and 1. High school physics is desirable.

Lecture, 3 hours; laboratory and quiz, 6 hours.

A study of chemical principles and laws with emphasis on chemical calculations. Laboratory work is quantitative in nature. This course is required of majors in agriculture, chemistry, engineering, biology, botany, geology, physics, dentistry, medicine, pharmacy, optometry, bacteriology, and medical technology.

Parallels Chemistry 1A, U.C.L.A.

2—Qualitative Analysis. *5 units credit.*

Prerequisite: Chemistry 1.

Lecture, 3 hours; laboratory and quiz, 6 hours.

A continuation of Chemistry 1, with emphasis on the chemistry of metals, structure of matter and chemical equilibrium. The laboratory work is semimicro qualitative analysis.

Parallels Chemistry 1B, U.C.L.A.

3—Introductory Chemistry. *5 units credit.*

Prerequisite: None. High school algebra desirable.

Lecture, 3 hours; laboratory and quiz, 4 hours.

Satisfies requirements for nursing and home economics majors as a laboratory science. Course includes some elementary organic chemistry and is, in general, less intensive and less mathematical then Chemistry 1. This should be taken in preparation for Chemistry 1 by those students who did not take chemistry in high school.

Parallels Chemistry 2A, U.C.L.A.

5—Quantitative Analysis. *3 units credit.*

Prerequisite: Chemistry 1 and 2. Required of chemistry, metallurgy, economic geology, premedical, public health and sanitary, petroleum, and municipal engineering majors.

Lecture, 2 hours; laboratory and quiz, 6 hours.

Principles of gravimetric and volumetric analysis.

Parallels Chemistry 5A, U.C.L.A.

6—Quantitative Analysis. *3 units credit.*

Prerequisite: Chemistry 5. Required of chemistry and economic geology majors.

Lecture, 2 hours; laboratory and quiz, 6 hours.

A continuation of Chemistry 5 with greater emphasis upon theory, instrumental methods and complex separations.

Parallels Chemistry 5B, U.C.L.A.

Not offered 1952-53.

7—Elementary Organic Chemistry. *4 units credit.*

Prerequisite: Chemistry 1 and 2. Concurrent enrollment in Chemistry 8 is desirable.

Required of students following these curricula: premedical and predental, petroleum, chemical, sanitary and municipal engineering, chemistry, biology, home economics, some agriculture and public health majors.

Lecture only, 4 hours.

Rapid survey of both aliphatic and aromatic carbon compounds.

Parallels Chemistry 8 (or 112A, if Chemistry 8 is taken concurrently), U.C.L.A.

8—Organic Chemistry Laboratory. *2 units credit.*

Prerequisite or concurrent: Chemistry 7. Required of premedical and predental students, majors in chemistry, biology, and petroleum engineering.

Laboratory and quiz, 6 hours.

Laboratory preparation and testing representative molecules.

Parallels Chemistry 9, U.C.L.A.

9—Organic Chemistry. *4 units credit.*

Prerequisite: Chemistry 7 and 8. Required of chemistry and chemical engineering majors.

Lecture, 2 hours; laboratory and quiz, 6 hours.

A continuation of Chemistry 7 and 8 with emphasis on modern concepts, reaction mechanisms and more advanced laboratory preparation.

Parallels Chemistry 112B, U.C.L.A—when preceded by Chemistry 7 and 8.

Not offered 1952-53.

10—Elementary Industrial Analysis. *3 units credit.*

Prerequisite: High school chemistry or Chemistry 3 and high school algebra.

Lecture and quiz, 3 hours; laboratory, 3 hours.

A terminal course in basic qualitative and quantitative methods for laboratory technicians. Not open to chemistry majors or minors.

Not offered 1952-53.

11—Forensic Chemistry. *4 units credit.*

Open by permission of instructor. See Police Science 11.

ECONOMICS

1—Principles of Economics. *3 units credit.*

An introduction to the basic characteristics of the American economy: problems of production, valuation, price; industrial organizations; the money and credit system; corporate securities. Emphasis is placed upon current economic problems.

Parallels Economics 1A, U.C.L.A.

2—PRINCIPLES OF ECONOMICS. *3 units credit.*

Prerequisite: Economics 1.

A continuation of Economics 1. Topics studied include: distribution of wealth and income, wages, interest, profits, business cycles; insurance, social security; government finance, taxation. As in Economics 1, these topics are considered in the light of current developments.

Parallels Economics 1B, U.C.L.A.

56—MONEY, CREDIT, AND BANKING. *3 units credit.*

Prerequisite: Economics 1 and 2, or consent of instructor.

This course is designed to give students a view of the financial organization of our society, with special emphasis on the American monetary system and commercial banking.

ENGINEERING

1—PLANE SURVEYING. *3 units credit.*

Prerequisite: Trigonometry and high school mechanical drawing, or concurrent registration in Math. 3 and Engineering 12.

Lecture, 2 hours; field, 3 hours.

The underlying principles of plane surveying; surveying instruments and their use; adjustment of the level and transit; calculations; field problems; and introduction to mapping.

Parallels Engineering 1LA and 1FA, U.C.L.A.

2—PLANE SURVEYING. *3 units credit.*

Prerequisite: Engineering 1.

Lecture, 2 hours; field, 3 hours.

Topographic surveying; stadia; the plane table; triangulation; simple astronomical observations; profile and cross-section work; problems; mapping.

Parallels Engineering 1LB and 1FB, U.C.L.A.

3—DESCRIPTIVE GEOMETRY. *3 units credit.*

Prerequisite: Engineering 12 and plane geometry. One year of high school mechanical drawing or its equivalent may be substituted for the Engineering 12 with permission of the instructor.

Lecture, 1 hour; laboratory, 5 hours.

The principles of descriptive geometry and their use in the solution of engineering problems. Required of all Engineering majors.

Parallels Engineering 2, U.C.L.A.

5—SURVEYOR'S COURSE IN PRACTICAL ASTRONOMY. *2 units credit.*

Prerequisite: Engineering 2.

Laboratory, 3 hours.

The principles of spherical trigonometry and astronomy adapted to the needs of students in engineering computing.

Parallels Astronomy 3, U.C.L.A.

8—Materials of Engineering Construction. *3 units credit.*

Prerequisite: Beta standing.

Lecture, 2 hours; quiz, 1 hour.

Structural properties and adaptability of construction materials.

Parallels Engineering 8, U.C.L.A.

12—Engineering Drawing. *2 units credit.*

Lecture, 1 hour; laboratory 4 hours.

Instruction in the care and use of drawing instruments; technical lettering, orthographic and isometric projection, simple working drawings, intersection, and development of solids.

Parallels Engineering 22, University of California, Berkeley.

15—Advanced Engineering Drawing. *3 units credit.*

Prerequisite: Engineering 3. Those students not intending to transfer to another college may be allowed to take this course by offering Engineering 12 as preparation.

Lecture, 1 hour; laboratory, 5 hours.

This course stresses drafting room practice and includes the technical sketching and drafting of machine parts and piping layouts. Current drafting room practices are discussed and analyzed from the viewpoints of both engineering and production.

Parallels Engineering 6, U.C.L.A.

16ABCD—Aircraft Drawing. *3 units credit each semester.*

Prerequisite: Engineering 15.

Laboratory, 6 hours.

Design of structural parts on the basis of strength requirements.

17—Elementary Mechanics. *3 units credit.*

Prerequisite: Engineering 8 (may be taken concurrently), Physics 1, Mathematics 8A.

Combined with Eengineering 18, Engineering 17 makes six units covering the elementary topics of strength of materials and analytical mechanics.

Lecture, 2 hours; laboratory, 3 hours.

Algebraic and graphical methods will be employed in the solution of problems concerned with the composition and resolution of coplanar forced systems, equilibrium, states of stress, simple stress calculations, frames, continuous redistributed loads, moments of areas, beam stresses.

Parallels Engineering 15A, U.C.L.A.

18—Elementary Mechanics. *3 units credit.*

Prerequisite: Engineering 8 (may be taken concurrently), Physics 1, Mathematics 8A, Engineering 17.

Lecture, 2 hours; laboratory, 3 hours.

This course is a continuation of Engineering 17, and takes up noncoplanar forced systems, friction, deflection of beams, statically indeterminate beams, combined axial and bending load, eccentric loads, columns, and cables.

Parallels Engineering 15B, U.C.L.A.

19—Drafting Room Techniques. *3 units credit.*

To follow Engineering 50 and Engineering 12.

Laboratory, 6 hours.

Continuation of drafting experience for the terminal student according to his needs. Includes descriptive geometry and conventional details of threads, gears, pipes and fastenings; also sheetmetal layout, electrical topographic drafting.

48—Introduction to Engineering and Industry. *1 unit credit.*

Lecture, 1 hour.

Required of all Alpha engineering majors.

Reports and lectures on prominent men in the engineering field, with the objective of orienting the student to engineering. The opportunities open to the engineer and the training required for successful work in engineering will be stressed. Professional engineers, specialists, and outstanding leaders in the engineering industry provide many of the programs.

Formerly 49AB; ½ unit credit each semester.

Parallels Engineering 48, U.C.L.A.

51—Mechanics and Statics. *2 units credit.*

An introduction to Aircraft Stress Analysis, including a review of engineering mathematics, statics, and mechanics. Included will be a study of algebraic and graphical methods for solution of force systems.

52AB—Blueprint Reading and Interpretation. A two-semester subject. *2 units credit each semester.*

In the first semester consideration is given to definitions, types, relationships of component parts, and exercises in the reading of blueprints, with particular attention to aircraft symbols.

In the second semester major emphasis is given to loft information and blue print interpretation. The student learns to use and apply loft information, with the view of obtaining necessary data for following a job to its completion.

53A—Stress Analysis I. *2 units credit.*

Fundamental principles of stress and strain; rivet joint analysis; beam stresses. Included are many practical problems relating to aircraft structures.

53B—Stress Analysis II. *2 units credit.*

An analysis of beams, columns, curved flexural members, flat plates, and composite beams. Special attention will be given to statically indeterminate and eccentrically loaded beams as applied to aircraft structures.

54—Strength of Materials. *3 units credit.*

Lecture, 3 hours.

Fundamental principles of strength of materials applied to practical drafting room problems. Considerable attention is given to the subjects of joints and fastenings for structural members.

57—Engineering Problems. *3 units credit.*

Lecture, 3 hours.

Methods of attack in solving the common types of engineering problems. Type problems are studied and parallel solutions using both analytical and graphical methods are formulated. The aim of the course is to develop experience in the logic of solving problems of all kinds as they appear in engineering work. The importance of significant figures and precision of measurement in data is stressed.

58—Test Instrumentation. *2 units credit.*

A survey of instruments commonly used in jet-engine development, and a consideration of industrial controls used in experimentation. Basic theory of instruments and controls.

61AB—Elementary Machine Shop. *3 units credit each semester.*

Shop, 6 hours per week.

Instruction is given in the fundamentals of the machinist trade. Included are the proper use and care of hand tools, and the correct operation of basic machine tool equipment, such as the drill press, lathe, milling machine, shaper, planer, grinder; the construction of machine tools. The study of related information, including mathematics and science.

61CD—Advanced Machine Shop. *3 units credit each semester.*

Shop, 6 hours per week.

Advanced and highly skilled operations on machine tools and equipment. Elementary tool and die work, including the building of jigs and fixtures and the heat treatment of metals by the several various methods.

74—City Surveying. *2 units credit.*

Prerequisite: Engineering 2.

Lecture, 1 hour; field work, 3 hours.

Application of surveying principles to city planning and construction work, including lot and subdivision surveys.

76AB—Structural Drafting. A two-semester subject. *3 units credit each semester.*

Prerequisite: Engineering 12.

Lecture, 1 hour; laboratory, 5 hours.

Graphic statics and elementary design of wood, concrete, and steel frame structures. Structural drafting details.

79—Estimating. *3 units credit.*

Prerequisite: Beta standing. Engineering 76A, Mathematics 1.

Lecture, 3 hours.

Computation of quantities and costs in engineering and building construction, problems in earth work, lumber, concrete, and steel, and estimation of labor costs. Preparation of bids.

80—Elementary Hydraulics. *2 units credit.*

Prerequisite: Physics 6.

An elementary study of the fundamentals of hydrostatics and hydrodynamics; flow through orifices, pipes, and channels; weirs stream gauging.

81—AIRCRAFT HYDRAULICS. *2 units credit.*

A survey of the basic principles of hydraulics, with an application of these principles to several kinds of aircraft. Included is the study of energizing units, articulating units, and hydraulic systems, with particular emphasis on their uses in the aircraft industry.

82—THERMODYNAMICS. *3 units credit.*

The study of heat and heat flow. An introductory course in the elements of thermodynamics.

83—AERODYNAMICS. *3 units credit.*

Flow of air around bodies, compressibility effects, and the fundamentals of aerodynamics are studied.

84AB—AIRCRAFT STRESS I AND II. *3 units credit each semester.*

The structures resisting forces encountered in aircraft are of great importance in design. An analysis of these forces is made, including stress, strain, fitting design, beams, bending moments, shear diagrams, unsymmetrical bending, columns, and thin plates.

85AB—AIRCRAFT STRUCTURES I AND II. *3 units credit each semester.*

A study of design and the analysis of thin-webb structures, torsion effects and differential bending.

90—APPLIED ELECTRICITY. *4 units credit.*

Lecture, 3 hours; laboratory, 3 hours.

Applied industrial electricity. Practice in the solution of direct and alternating current circuits, power and energy, and power factor calculation. Study of the principal forms of electric equipment used in modern industry; storage batteries, magnetos and ignition systems; direct and alternating current motors and generators, and transformers.

ENGLISH

The following lower division courses are required by most colleges for the A.B. Degree in English:

English 1-2 Reading and Composition

English 9-10 History of English Literature

History 3-4 History of British Civilization

A reading knowledge of French or German is required for a Master's Degree; of French and German for a Doctor's Degree.

1—ENGLISH 1. Reading and Composition. *3 units credit.*

Training in the basic communications skills: (1) reading expository material to grasp fundamental ideas; (2) writing clear, well-developed compositions; (3) listening with comprehension. Basic to these three techniques is an understanding of the elements of punctuation, grammar, and sentence construction.

Early in the semester a performance test will be given to all students enrolled in English 1. Those showing exceptional skill in writing and comprehension in reading may be given an opportunity to enroll in English 2.

Parallels English 1A, U.C.L.A.

2—English 2. Introduction to Literature. *3 units credit.*

Prerequisite: English 1.

An introduction to poetry, drama, the short story, with extensive reading in each of the three types to develop understanding and appreciation.

Parallels English 1B, U.C.L.A.

Y—English Laboratory. *1 unit credit.*

Training in basic language skill. A supplementary section in English, meeting two hours a week. This is designed as an aid for those students exhibiting particular need for development of reading skills as revealed in the performance test which is to be given to all students who enroll in English 1.

3-4—Masterpieces of World Literature. A two-semester subject. *3 units credit each semester.*

Prerequisite: English 1.

An introduction to world literature in translation; readings in the works of various nations; the origin, transmission, and significance of notable literary types.

Parallels Humanities 1A-1B, U.C.L.A.

5—The Bible as Literature. *2 units credit.*

Prerequisite: English 1 or an equivalent reading background.

An introduction to the narrative, poetry, and drama of the Bible as found in the Old and New Testaments. Attention is given to the various English translations and to the use of Biblical themes in English literature.

9—Survey of English Literature. *3 units credit.*

Prerequisite: English 1 and 2.

An historical survey of the English language, literary forms and ideas from the beginnings to the 18th Century.

Parallels English 46A, U.C.L.A.

10—Survey of English Literature. *3 units credit.*

Prerequisite: English 1 and 2.

The historical survey begun in English 9 is carried on from the 18th Century to the present.

Parallels English 46B, U.C.L.A.

12—An Introduction to Shakespeare. *3 units credit.*

Prerequisite: English 1 and 2.

An informal study of Shakespeare and of the Elizabethan theater, including selected chronicle plays, comedies, and tragedies, with special emphasis on the beauty and power of Shakespeare's language and his depth of human understanding.

21AB—Creative Writing I and II. *2 units credit each semester.*

Prerequisite: English 1, or consent of the instructor.

Lecture, 2 hours; laboratory, 1 hour.

The fundamentals of narrative and expository writing. Analysis, criticism, and practice of creative writing.

23—American Literature. *3 units credit.*

Prerequisite, English 1.

A survey of the literature of the United States from Poe to the present day. The course will emphasize the works of the major American writers, relating them to the social, intellectual, and historical currents of their time and of ours.

Parallels English 30, University of California (Berkeley).

25—Literature of Our Own Time. *3 units credit.*

Prerequisite: One of the following courses: English 2, 3, 4, 9, or 10.

A survey of literature in Europe and America from 1900 to the present day. Short stories, poetry, the essay, drama, and the novel are related to the chief intellectual currents of the time.

29—Children's Literature. *3 units credit.*

Prerequisite: English 1.

A survey of books, periodicals, and audio-visual materials suitable for children at various age levels. Emphasis will be placed on extensive reading in the field; on acquainting the student with authors, illustrators, and publishing houses specializing in children's literature; on practice in the techniques of story telling and simple dramatization as they relate to the development of reading interests; on evaluating materials from the standpoint of interest and effectiveness in developing desirable attitudes.

Recommended for those interested in nursery school, kindergarten, or elementary school teaching or recreational work, and for parents who desire to extend their knowledge of desirable books for the home library.

This course will be accepted for three units of the English graduation requirement for Nursery Education majors only.

31ABCD—Books That Live. A four-semester subject. *2 units credit each semester.*

A consideration of the books—philosophical, historical, literary—that have greatly influenced the thinking and behavior of mankind. The course stresses understanding and appreciation of the ideas expressed in relation to the times that produced the works, and to our own.

The four semesters may be taken in any order, or each may be followed independently.

FRENCH

1—Elementary French. *4 units credit.*

The fundamentals of pronunciation and grammar, practical vocabulary, useful phrases; emphasis on ability to understand, read, write, and speak simple French. Basic facts on the geography, customs, and culture of France; French songs, poems, and proverbs. This is the beginning course for all college students of French.

Parallels French 1, U.C.L.A.

2—Elementary French. *4 units credit.*

Prerequisite: French 1, or two years of high school French.

A more detailed study of the French language. Reading of simplified texts. Oral expression is emphasized. The culture of France is studied.

Parallels French 2, U.C.L.A.

3—Intermediate French. *4 units credit.*

Prerequisite: French 2, or three years of high school French.

Vocabulary building, coupled with a review of French grammar. Introduction to coordinated survey of French literature. Emphasis on personalized expression of ideas, oral and written.

Parallels French 3, U.C.L.A.

4—Intermediate French. *4 units credit.*

Prerequisite: French 3, or four years of high school French.

Continues survey of French literature. Training in oral and written expression based on contemporary writings and problems of French civilization.

Parallels French 4, U.C.L.A.

GEOGRAPHY

1—Introduction to Geography: *Physical Elements. 3 units credit.*

A study of the basic physical elements of geography and their integrated patterns of world distribution. Special emphasis will be placed on climate, landforms, soil, and natural vegetation.

Parallels Geography 1A, U.C.L.A.

2—Introduction to Geography: *Cultural Elements. 3 units credit.*

Prerequisite: Geography 1.

A study of the basic cultural elements of geography and their correlation with the physical elements. Special attention will be given to population distribution, general land use patterns, and world trade.

Parallels Geography 1B, U.C.L.A.

5—Economic Geography: *3 units credit.*

Credit not given for both Geography 2 and 5.

The principles of economic geography are developed through studies of representative occupations, commodities, and trade.

Parallels Geography 5B, U.C.L.A.

6—Map Reading and Interpretation. *2 units credit.*

Lecture, 1 hour; laboratory, 2 hours.

A study of maps in the light of present-day needs, with special emphasis on the geographic interpretation of relationships between the natural and cultural phenomena in representative areas. Includes history of maps, map projections, aerial photographs, and practice in the reading of selected domestic and foreign maps.

Parallels Geography 4, U.C.L.A.

GEOLOGY

1—Physical Geology. *3 units credit.*

This is an elementary course dealing with the earth's surface features and the geological laws governing their origin and development.

Parallels Geology 2, U.C.L.A.

Parallels Geology 5, U.C.L.A., when taken with Geology 6. This satisfies a laboratory science requirement.

2—Historical Geology. *3 units credit.*

Prerequisite: Geology 1.

A study of the geological history of the earth and its inhabitants.

Parallels Geology 3, U.C.L.A.

6—General Geology Laboratory. *1 unit credit.*

Prerequisite: Geology 1, or taken concurrently.

9—Geologic Surveying. *3 units credit.*

Prerequisite: Geology 1 and 6.

Lecture, 2 hours; laboratory and field work, 3 hours.

Introduction to mapping techniques used in geologic field work, with emphasis on the use of the plane table.

Parallels Geology 9, U.C.L.A.

10—Maps and Aerial Photographs. *2 units credit.*

Prerequisite: Geology 1 and 6.

Lecture, 1 hour; laboratory and field work, 3 hours.

Interpretation of maps and aerial photographs.

GERMAN

1—Elementary German. *4 units credit.*

This course corresponds to the first two years of high school German.
Parallels German 1, U.C.L.A.

2—Elementary German. *4 units credit.*

Prerequisite: German 1, or two years of high school German.
Parallels German 2, U.C.L.A.

HEALTH

10—Health Education. *2 units credit.*

Required of all students.

A course in personal and community health problems; consideration of physical and mental well-being; the effect of exercise and fatigue; proper selection of food; mental and emotional habits.

Parallels Physical Education 2, U.C.L.A.

11—Principles of Healthful Living. *3 units credit.*

Fundamentals of healthful living, with emphasis on the place of health in the physical education program. Open to physical education majors only.

Parallels Health 44, U.C.L.A.

23—First Aid. *2 units credit.*

Students completing this course are eligible for the Standard and Advanced Red Cross First Aid Certificates.

Parallels Physical Education 5, U.C.L.A.

24—First Aid. *1 unit credit.*

Students completing this course are eligible for the Standard Red Cross First Aid Certificate.

HISTORY

1-2—History of Civilization. A two-semester subject. *3 units credit each semester.*

The growth of European civilization from ancient times to the present. This course is a general survey of the development of those arts, ideas, and institutions which have created modern civilization. Attention will also be given to the great international crises of the twentieth century and to the background necessary to their understanding.

Parallels History 1A-1B, U.C.L.A.

3-4—History of British Civilization. A two-semester subject. *3 units credit each semester.*

A survey of the political, economic, and cultural development of the British Isles and Empire from earliest times to the present.

Parallels History 5A-5B, U.C.L.A.

5-6—History of the Americas. A two-semester subject. *3 units credit each semester.*

Special emphasis is placed on the physical, political, and cultural factors influencing the development of Hispanic America from 1492 to the present. Special attention is given to the impact of industrialization and Pan-Americanism on inter-American affairs. This course is oriented toward the needs of students who have a cultural or occupational interest in Latin America.

Parallels History 8A-8B, U.C.L.A.

7—The World's Great Religions. *3 units credit.*

The historical development of the world's great religions. A study is made of the origins and growth of the chief religions of mankind and of their contributions to modern civilization.

8—International Development Since 1914. *3 units credit.*

A study of those world rivalries and tensions which have resulted in World Wars I and II and the present international situation. Attention will also be given to the internal problems of the great powers and to those factors and conditions which explain their present policies.

9—The Pacific Coast. *2 units credit.*

A general survey of the history of the Pacific Coast from the period of the exploration to the present. Special emphasis is given to the cultural, economic, and social development of California. University of California at Santa Barbara requires this course for teachers.

Parallels History 39, U.C.L.A.

10—Main Currents in American History. *2 units credit.*

A brief survey of United States history, with emphasis upon those political, social, and cultural factors which best explain the development of modern American society.

This course meets the California state graduation requirement in American history both at Valley College and at all branches of the University of California. Not open to students having credit for History 11 or 12.

11-12—Political and Social History of the United States. A two-semester subject. *3 units credit each semester.*

A survey of the development of the American nation from the age of discovery to the present.

Either History 11 or 12 meets the California State graduation requirement in American history. History 11 and 12 together meet the California State graduation requirement in American history and institutions. Not open to students having credit for History 10.

Parallels History 7A-7B, U.C.L.A.

50A—History of California. A ten-week course. *1 unit credit.*

A study of California from the period of discovery, through the Spanish and Mexican eras, up to 1840.

50B—History of California. A ten-weeks course. *1 unit credit.*

A study of California history from 1840 to the present time.

HOME ECONOMICS

1—Fundamentals of Textiles & Clothing Construction. *3 units credit.*

Lecture, 2 hours; laboratory, 4 hours.

A study of fundamental problems of clothing construction, including the use of commercial patterns; care and use of equipment. A study of design and textiles for intelligent selection, use and care.

Parallels Home Economics 16, U.C.L.A.

2—Principles of Nutrition. *2 units credit.*

An introduction to nutrition, with emphasis on basic dietary requirements and the determination of energy needs. Includes current developments in the field of nutrition.

Parallels Home Economics 2, U.C.L.A.

HUMANITIES

Courses listed below satisfy the Humanities requirement at U.C.L.A.

English 3 and 4
English 9 and 10
Philosophy 1 and 2
Art 1A and 1B
Music 3, 4, 18, 19

JOURNALISM

1-2—News Writing and Reporting. A two-semester subject. *3 units credit each semester.*

A course designed primarily as an introduction to the field of journalism.

16—Copy Reading and Headline Writing. *3 units credit.*

Rules and principles of the techniques of editing copy, rewriting, headline writing, makeup, correcting proof, and other details of editing, with practical work on the desk of the college newspaper.

31—Newspaper Advertising. *3 units credit.*

This course covers aims, selling and preparation of copy for newspaper advertising. The class has charge of the advertising for the college newspaper.

61—Feature and Editorial Writing. *3 units credit.*

Theories in and principles of writing feature articles as used in magazines and newspapers, including techniques of gathering material. Theory and practice in editorial writing, functions of editorials, interpretation of news events, and types of editorials.

63—The Community Press. *3 units credit.*

The study of the editorial and business problems of the community newspaper, with particular emphasis on the problems of weekly publications.

64—Ethics of the Modern Newspaper. *2 units credit.*

Relationships of newspapers to society, the ethics used by modern newspapers, and criticisms of the press.

65—News Photography. *3 units credit.*

Designed to meet the needs of journalism students who desire competence in the photographic needs of the newspaper profession. A complete study of basic news photography, including the operation of news cameras, developing, printing and enlarging of pictures.

66—History of Journalism. *3 units credit.*

The historical development of newspapers in England and America, with special emphasis on the struggle for freedom of the press.

67—Public Relations. *2 units credit.*

Designed to help those who are interested in the broad aspects of relationships with the public. Ways of promoting favorable relations such as may be used by social service workers, Chambers of Commerce secretaries, businessmen, school executives, public relations specialists, and campaign managers are given consideration.

68—Laws of the Press. *2 units credit.*

The freedom and limitations of the press based on laws of libel and contempt. Guarantees by the Constitution, the right of privacy, and postal regulations are stressed.

82ABCD—Practical Editing. *2 units credit each semester.*

Required of all newspaper staff members. Especially designed to assist editors and desk workers of the college newspaper in preparing for their positions.

83AB—Practical Public Relations. *2 units credit each semester.*

This course is designed to aid those who plan to work in the field of public relations. It will give practical experience in the techniques for use of the various media composing public relations programs. This course should be taken concurrently with or subsequent to Journalism 67.

84AB—Practical Magazine Editing. *2 units credit each semester.*

Required of all annual staff members. Study and practical experience in the makeup and editing of a college annual.

LAW

1—Business Law. *3 units credit.*

Essentials of the law of contracts and sales in their application to everyday problems pertaining to business and business practices. Elementary safeguards regarding negotiable instruments are also considered. Case discussion and lecture method.

2—Business Law. *3 units credit.*

Prerequisite: Law 1.

Essentials of the law of agency, of partnership, of corporations, and bailments common in business practice are considered.

Completes Business Law requirement for business majors. Case discussion and lecture method.

LIBRARY SCIENCE

1—Use of Books and Libraries. *1 unit credit.*

An orientation course which teaches the effective use of library materials and gives training in the preparation of bibliographies and term papers. Designed for all students, but especially recommended for university transfers with majors in the Liberal Arts. Required for Library Science majors.

2—Library Clerical Procedures. *1 unit credit.*

Prerequisite: Secretarial Science 1 or the equivalent.
Library Science 3A must be taken concurrently.

A study of the duties performed by the library assistant, including circulation routines, book processing, filing, ordering, etc.

This course prepares the student for a civil service position as library assistant in school and public libraries.

3ABCD—Directed Library Experience. *2 units credit each semester.*
Four hours a week.

Prerequisite: Library Science 2 must be taken concurrently with 3A.

Systematic work experience in library clerical procedures.

LIFE SCIENCE

1ABCD—Clinical Laboratory Methods. A four-semester subject. *3 units credit each semester.*

A survey of clinical laboratory techniques, with emphasis on processes most frequently employed by laboratory technicians. Detailed attention is given to urinalysis and to hematology (including blood counts, smears, blood typing, bleeding and clotting time, and sedimentation rate).

Consideration is given to the practical aspects of bacteriology, parasitology, epidemiology, serology, immunology, and vaccination.

MATHEMATICS

1—Intermediate Algebra. *3 units credit*

Prerequisite: 2 semesters of high school algebra with grades "C" or better, or Mathematics 50.

Three one-hour meetings each week. Students who need extra review and drill will be required to attend the class four (4) times a week.

This course takes the place of the second year of high school algebra. It should be taken during the Alpha semester by all students who lack the high school equivalent and who expect to take college courses in engineering, physics, chemistry, business administration, and related fields. The student is expected to develop understanding and accurate working knowledge of the following topics: fractional and negative exponents, factoring, remainder and factor theorems, quadratic equations, radical logarithms, binomial expansions, determinants, competent manipulative skill in algebraic processes.

Parallels Mathematics D, U.C.L.A.

2—Mathematics of Finance. *3 units credit.*

Prerequisite: Mathematics 1 or its equivalent.

This is a required course for business administration students who expect to continue in this field at a college or university. Mathematics 21 (College Algebra) is a recommended prerequisite for this course. The student is expected to develop skill in the use of formulas for computing simple and compound interest, annuities, installment payments, depreciations, perpetuities, capitalization, life insurance rates, and other topics related to the handling of money.

Parallels Mathematics 2, U.C.L.A.

3—Plane Trigonometry. *3 units credit.*

Prerequisite: 1 year of high school algebra and 1 year of geometry, or Mathematics 50 and Mathematics 63, with grade of "C" or better, and Mathematics 1 or equivalent. Mathematics 1 may be taken concurrently.

This is a basic required course for students who expect to study mathematics, physics, engineering, or related courses. It is not required of students who have had a high school course in trigonometry. U.C.L.A. will allow 2 units credit for Math. 3 to students who have had high school trigonometry. The student will be expected to develop skill in the following topics: the solving of any type of plane

triangle, with or without logarithms; the manipulation of trigonometric identities; the solution of trigonometric equations; solutions involving radian measurement; solution of trigonometric equations.

Parallels Mathematics C, U.C.L.A.

7A—Plane Analytic Geometry. *3 units credit.*

Prerequisite: Mathematics 3 and 21. Mathematics 21 may be taken concurrently with this course.

This is a basic course for students of mathematics, physics, and engineering. The standard equations for straight lines and all conic sections are thoroughly studied. The student will also study translations, rotations, polar coordinates, and parametric equations.

Parallels Mathematics 3A, U.C.L.A.

7B—Calculus I. First Course in Calculus. *3 units credit.*

Prerequisite: Mathematics 7A (Analytic Geometry).

This is a basic course for students in mathematics, engineering, and physics. Elements of both differential and integral calculus will be presented and applications emphasized. Specific units will include the study of functional notation and concepts, limits, definition of a derivative, differentiation formulas, differentials, integration, and the definite integral.

Parallels Mathematics 3B, U.C.L.A.

8A—Calculus II. Second Course in Calculus. *3 units credit.*

Prerequisite: Mathematics 7B.

This is also a basic course for students of mathematics, engineering, and physics. Applications of the derviative are extended to trigonometry and exponential functions. The student is expected to become skilled in the use of various special devices for integration.

Parallels Mathematics 4A, U.C.L.A.

8B—Calculus III. Third Course in Calculus. *3 units credit.*

Prerequisite: Mathematics 8A.

With the consent of the instructor, 8A and 8B could be taken concurrently. This course completes the presentation of elementary calculus. The student continues the study of the integration of rational fractions and then takes up the study of infinite series and differential equations. Partial differentiation and multiple integrals are also covered.

Parallels Mathematics 4B, U.C.L.A.

9—Mathematics of Business and Accounting. *3 units credit.*

In this course, mathematics is applied to typical accounting, financial, and other business problems, including bank discounts, trade discounts, weighted averages, merchandise markup, and turnover. Also included is the application of compound interest principles to annuity, sinking fund, and amortization problems.

21—College Algebra. *3 units credit.*

Prerequisite: 2 years of high school algebra or the equivalent.

This course aims to give the student greater facility in the use of algebra, the basic mathematical tool. Topics studied include: linear, radical, and quadratic equations; simultaneous solutions of second-

degree equations; binomial theorem, DeMoivre's theorem, rational and irrational roots of polynomial equations of any degree; permutations, combinations, and probabilities; infinite series.

Parallels Mathematics 1, U.C.L.A.

38—FUNDAMENTALS OF ARITHMETIC. *2 units credit.*

A required course for those planning to teach in the elementary schools. Arithmetic is presented from the point of view of a teacher, helping the student to attain a mastery of the processes and a clearer perception of the difficulties in order that facility may be gained in teaching and explaining arithmetic to classes in the elementary grades.

Parallels Mathematics 38, U.C.L.A.

50—ELEMENTARY ALGEBRA. *5 units credit.*

This course takes the place of the first year of high school algebra. It is required of all students for entrance into many universities (including U.C.L.A.). The student is expected to develop an understanding and accurate working knowledge of the following topics: positive and negative numbers, simple radicals, positive integral-exponents, parentheses, factoring of simple polynomials, simple equations, 2 variable simultaneous linear equations, graphing of equations, and algebraic solutions of a variety of stated problems.

63—PLANE GEOMETRY. *5 units credit.*

This course does not depend on algebra and hence could be taken concurrently with Math. 50, but it is recommended that the student take one at a time unless he is quite confident of his mathematical ability. The student studies and makes all conclusions possible about lines, angles, triangles, squares, parallelograms, circles, and other plane figures. Principles of logic are constantly practiced and emphasized. This is a required course for entrance to U.C.L.A.

67—SLIDE RULE. *1 unit credit.*

Skill in the use of the slide rule is very important for the student of engineering, chemistry, physics, and related subjects. This course gives much practice in the practical use of the sliderule in computation problems involving multiplication, division; finding squares, cubes, square roots, and cube roots; trigonometric functions, and logarithms. A medium-price slide rule (about $6.00 or better) is required.

71—BASIC CALCULATIONS. *3 units credit.*

This is a course designed to familiarize the student with a wide variety of mathematical problems which are encountered in shop work. The course content includes a review of the rules of calculation with decimals and percentage, work with formulas, and the adaptation of algebra, geometry, and trigonometry to drafting problems. Special emphasis will be placed upon skill in calculation within a given tolerance. (Formerly Engr. 46.)

80—MATHEMATICS REVIEW. *3 units credit.*

Review of the fundamental processes in the field of mathematics.

MUSIC

1—Solfeggio I. *3 units credit.*

Basic course for music majors; important for singers and instrumentalists.

Elementary theory, including notation, scale structure, keys, intervals, sight-singing, melodic dictation and musical terminology.

This course includes all the subject matter required of candidates for kindergarten, primary or elementary teaching credentials. Is equivalent to Music 31, U.C.L.A.

Parallels Music 1A, U.C.L.A.

2—Solfeggio II. *3 units credit.*

Prerequisite: Music 1 or permission of the instructor.

Continuation of musical theory, including advanced sight-singing, two- and three-part dictation, and underlying principles of musicianship.

Parallels Music 1B, U.C.L.A.

3—Music of the Classical and Earlier Periods. *3 units credit.*

May be used to satisfy humanities requirements for university transfers.

Designed primarily for music majors and informed amateurs.

This course traces the evolution of melody, harmony, rhythm and instrument from Gregorian plainsong through such developments as the rise of organum, the Italian and English madrigal, the polyphony of Palestrina and Di Lasso; the rise of opera, the suite and symphony orchestra, to the flowering contributions of Bach. The emphasis is on listening to significant works.

Equivalent to Music 20A, U.C.L.A.

4—Music of the Romantic and Modern Periods. *3 units credit.*

May be used to satisfy humanities requirements for university transfers.

Designed primarily for music majors and those with some musical background.

Music and the humanities—a study of the place of music in cultural life from 1800 to the present. Special emphasis is placed upon the understanding of styles, forms and development of the orchestra. The course includes an intensive consideration of major musical works.

Equivalent to Music 20B, U.C.L.A.

5—Harmony I. *3 units credit.*

Required of music majors.

Prerequisite: Music 1 or 2 taken previously or concurrently.

The primary triads and dominant seventh in all inversions; harmonic analysis and dictation; introduction to non-chordal tones.

Parallels Music 3A, U.C.L.A.

6—Harmony II. *3 units credit.*

Required of music majors.

Prerequisite: Music 5 or permission of the instructor.

Continuation of Music 5, including the secondary triads, some secondary seventh chords, sequences, elementary modulations, and nonchordal tones.

Parallels Music 3B, U.C.L.A.

7-8—HARMONY III AND IV. *3 units credit each semester.*

Required of music majors.

Prerequisite: Music 6 or permission of the instructor.

Continuation of Music 6; chromatic harmony, altered chords, advanced modulation, keyboard harmony, ear-training, introduction to modern harmony, and elementary composition.

Music 7—Parallels Music 4B, University of California (Berkeley).

Music 8—Parallels Music 3D, Santa Barbara State College.

10ABCD—ORCHESTRA. *2 units credit each semester.*

Four hours weekly.

Open to qualified students.

Preparation for concert appearances. Development of individual technical and artistic abilities, as well as discriminative understanding of music through experience with a wide range of orchestral literature.

Music 10AB parallels Music 60, U.C.L.A.

11ABCD—ORCHESTRA. *1 unit credit each semester.*

Two hours weekly.

Open to qualified students.

Preparation for concert appearances. Development of individual technical and artistic abilities, as well as discriminative understanding of music through experience with a wide range of orchestral literature.

12ABCD—VOICE. *2 units credit each semester.*

Four hours weekly.

Prerequisite: Permission of the instructor

The singing voice; mechanics of vocal production. Development of the singing tone, range, freedom, relaxation and expressiveness through experience with an extensive variety of solo songs.

Parallels Music 40AB, U.C.L.A.

14ABCD—A CAPPELLA CHOIR. *2 units credit each semester.*

Five hours weekly.

Open to all students by audition.

Development of a repertoire of standard literature for mixed voices; public presentations; emphasis on progressive development of ability to read and interpret the musical score.

Music 14AB parallels Music 63, U.C.L.A.

15ABCD—BAND. *2 units credit each semester.*

Four hours weekly.

Preparation for performances: marching and concert activities. Development of individual technical and artistic abilities through experience with a wide range of band literature.

Music 15AB parallels Music 61, U.C.L.A.

16—COUNTERPOINT I. *2 units credit.*

Required of music majors.

Prerequisite: Permission of the instructor.

Two-part strict counterpoint in all five species.

Parallels Music 5A, U.C.L.A.

17—COUNTERPOINT II. *2 units credit.*

Prerequisite: Music 16.

Continuation of Music 16; three-part strict counterpoint in all five species; introduction to modal and free counterpoint.

Parallels Music 5B, U.C.L.A.

18—GENERAL SURVEY OF MUSIC. *2 units credit.*

A general course designed to develop an understanding of the music which is heard in the concert hall and on the radio. Emphasis on listening to representative works.

This course may be used to fulfill 2 units of the humanities requirement for university transfer students.

Parallels Music 30A, U.C.L.A.

19—GENERAL SURVEY OF MUSIC. *2 units credit.*

Prerequisite: Music 18 or consent of instructor.

A continuation of Music 18, with special emphasis on the development of a layman's background for listening to serious music in concert, motion picture, radio, or television.

Parallels Music 30B, U.C.L.A.

20ABCD—BAND. *1 unit credit each semester.*

Two hours a week.

Preparation for performances: marching and concert activities. Development of individual technical and artistic abilities through experience with a wide range of band literature.

21—THE GREAT OPERAS. *2 units credit.*

Three hours a week.

This course is designed to bring to the opera enthusiast an opportunity to hear the best loved operas and to become familiar with the various aspects of style which contribute to their popularity. Emphasis is on hearing representative works.

34AB—ELEMENTARY PIANO. *2 units credit each semester.*

Three hours weekly.

Required of music majors who fail to pass the piano examination. Piano instruction from the level of the complete beginner through Book IV of the Oxford Course.

Equivalent to Music 41, U.C.L.A.

47ABCD—MEN'S CHORUS. *1 unit credit each semester.*

Two hours weekly.

Open to all students by tryout.

Practice in singing standard and semi-classical literature in three- and four-part harmony. Several public performances.

54ABCD—General Chorus. *1 unit credit each semester.*

Two hours weekly.

Open to all who are interested. Singing of choral literature for mixed voices, including examples from the various periods (modern, romantic, Renaissance). Emphasis on problems of choral blend, diction, tone-quality and intonation.

NURSERY EDUCATION

1—The Nursery-School Child. *3 units credit.*

Lecture, 3 hours.

A comprehensive study of the two to eight-year-old child, his inheritance, the genetic development of his abilities, environmental influence, physical and mental maturation, the causes and correction of behavior problems, preventive mental hygiene, and the gradual development of a mature personality through social participation; the role of the teacher and the nursery school in personal and social development.

3—Nursery School Methods and Materials. *2 units credit.*

Prerequisite: Nursery 1.

Lecture, 2 hours.

Teaching techniques and instructional materials of the nursery school. Health, play, habit formation, behavior problems, character development; foundations of art, music, language, literature, social studies, science.

7AB—Children's Music. A two-semester subject. *2 units credit each semester.*

Lecture, 1 hour; laboratory, 2 hours.

The child voice, teaching of rote songs, listening experiences, free imitation, simple musical and rhythmical experiences; dramatic activities; materials for different age levels to provide for individual differences; use of phonograph, piano, and rhythm instruments.

7B may be taken before 7A.

10—Nursery School Nutrition. *3 units credit.*

Lecture, 2 hours; laboratory, 4 hours.

The fundamental principles of nutrition for the child two to eight years of age; the classification, occurrence, and general properties of foods suitable for the young child; the principles of food preparation and preservation; compilation of recipes; practice in food preparation.

11AB—Observation of Nursery Instruction. A two-semester subject. *2 units credit each semester.*

Laboratory, 4 hours.

Observation and evaluation of the setting of the pre-school program and the activity of children and teacher in a modern nursery school and child-care center, with emphasis on the study of achievements and conditions that make toward the desired results.

12AB—Directed Teaching. A two-semester subject. *3 units credit each semester.*

Prerequisite: Nursery 11A-11B.

Laboratory, 6 hours.

Observation and teaching experience under supervision in the laboratory nursery school (first semester) and in a Los Angeles City Child-Care Center (second semester).

15—Nursery School Administration. *3 units credit.*

Prerequisite: Consent of instructor.

Lecture, 2 hours; directed observation, 2 hours.

Administrative organization and structure of the nursery school and child-care center. Financing, budgeting, equipping, purchasing management, scheduling, reporting, evaluating.

18—Problems in Nursery Education.

This course is set up to meet the particular needs of teachers in child-care centers. The course is conducted on a workshop basis dealing with current specific problems confronting the teachers and administrators of nursery schools of this type.

51ABCD—Workshop In Nursery Education. *1 unit credit each semester.*

Primarily for parents and teachers. The course is devoted to a study of human relationships. Included is a review of the purposes of nursery schools and the kinds of schools available for the pre-school child. A study of parent-child and teacher-child relationships, with added emphasis on the parent-teacher relationships in the co-operative or parent-participating type of nursery school. Consideration will be given to nursery school arts, crafts, music, and story telling.

NURSING

1—Introduction to Nursing. *3 units credit.*

A critical analysis of the present responsibilities of the nursing profession in relation to the world health picture, with emphasis on social and economic factors.

Parallels Nursing 10, U.C.L.A.

PHILOSOPHY

1-2—Introduction to Philosophy. A two-semester subject. *3 units credit each semester.*

An introduction to the central problems and types of philosophy in their relations to science and society. Consideration will be given to such matters as the nature of man, personal ethics, the ways of knowing, the meaning of religion to man, the universe, and the nature of beauty.

Parallels Philosophy 6A-6B, U.C.L.A.

3—Problems of Ethics and Religion. *2 units credit.*

A study of human conduct and its rules; the natural law; the moral basis of institutions with reference to property, the family, and the state; religion and the moral order.

Parallels Philosophy 5, U.C.L.A.

VALLEY
VALLEY
VALLEY

PHYSICAL EDUCATION

All students under 25 years of age are required to enroll in one (1) activity course each semester, and in addition to complete a course in Health 10 before graduation. It is recommended that no activity except Physical Education 3 be repeated, and that at least one Physical Education 7 activity be taken.

The Physical Education major is offered by the University of California at Los Angeles in the College of Applied Arts. Students planning to obtain a degree in Physical Education from other institutions offering this major should carefully check the catalog of these institutions for specific requirements.

1—General Activities. *½ unit credit each semester.*

Two hours weekly in any of the following:

FOR MEN	*FOR WOMEN*
Badminton	Archery
Baseball	Basketball
Basketball	Bowling
Bowling	Body Mechanics
Field Games	Modern Dancing
Football	Softball
Golf	Swimming
Gymnastics	Tennis
Physical Fitness	Volleyball
Swimming	
Tennis	
Track and Field	
Volleyball	
Wrestling	

3—Team Activities *(Men).* *½ unit credit.*

Five hours or more a week in the sports in season.

5M-5W—Restricted Activities *(Men and Women).* *½ unit credit.*

Two hours a week.

Required instead of Physical Education 1 or 3.

Limited to students recommended by the college physician.

7—Coeducational Activities. *½ unit credit.*

Archery	Life Saving & Water Safety
Badminton	Square and Social Dancing
Bowling	Tennis
Golf	Volleyball

12-13—Folk Dancing *(Men and Women).* A two-semester subject. *1 unit credit each semester.*

Three hours a week.

Required for recreational leadership majors.

Parallels Physical Education 26, U.C.L.A.

19—Introduction to Physical Education. *3 units credit.*

The scope and significance of physical education in the modern school program is studied, together with an analysis of established stand-

ards of professional ethics and personal qualifications as important contributing factors to successful leadership in the field. The course is especially planned for and required of all students majoring in physical education and recreation.

21—Administration of Community Recreation *(Men and Women). 3 units credit.*

A theory course covering the general principles of organization and direction of recreation activities, including a study of the play movement; the nature and function of play and recreation; recreation needs, capacities, and interests of various age periods; technique of organization and leadership of typical recreation activities, and the construction, equipment, and organization of the playground program. This is a required course for physical education and recreation majors.

22—Directed Practice in Community Recreation. *3 units credit.*

Prerequisite: Physical Education 21.

Lecture, 2 hours; a minimum of 4 hours weekly of directed practice.

This course is planned to give practical supervised experience in Los Angeles playgrounds to students who are training for recreational leadership.

23—Games of Low Organization *(Men and Women). 3 units credit.*

Three hours a week.

Required of physical education majors.

A course covering the classification, principles of organization, and technique and practice in teaching games and rhythmics suitable for playgrounds, elementary schools, and nursery schools.

Equivalent to P.E. 27 and 28, U.C.L.A.

24ABCD—Methods of Coaching and Officiating *(Men). 1½ units credit each semester.*

Four hours a week.

Required of physical education majors and recreational leadership majors.

Theory and practice in the technique of coaching and officiating in games and sports. In the four semesters the student would be given experience in all sports.

Equivalent to P.E. 6, 7, 8, and 9, U.C.L.A.

25A—Professional Activities *(Women). 3 units credit.* Six hours a week.

Orientation to the field of Physical Education. Theory and practice in the improvement of skills in team sports. Practice in officiating is given.

Parallels Physical Education 29, U.C.L.A.

25B—Professional Activities *(Women). 3 units credit.*

Theory and practice in the improvement of skills in individual sports and rhythms. Students are given an opportunity to do practice teaching.

Parallels Physical Education 30, U.C.L.A.

25C—Professional Activities *(Women). 3 units credit.*

Orientation to the physical education program on the elementary school level, with emphasis given to the theory and practice of teaching suitable activities.

Parallels Physical Education 31, U.C.L.A.

28—Club Leadership of Camp Activities *(Men and Women). 2 units credit.*

A training course for leaders of boys' and girls' clubs interested in youth agency club works. A study of methods and practical organization of club groups. Opportunity for practical experience provided.

29—Directed Practice in Social Recreation *(Men and Women). 1 unit credit.*

One hour a week.

Laboratory work to be arranged.

Open to men and women of all curricula. A course in the organization and direction of skills used in social recreation of adults. Philosophy of recreation, with emphasis on use of recreation agencies.

Parallels Physical Education 23, U.C.L.A.

30—Life Saving and Water Safety *(Men and Women). 2 units credit.*

Three hours a week.

The Senior Red Cross Life Saving Certificate will be issued to those students who successfully meet the requirements set for the awarding of these certificates. A qualifying test is required.

Parallels Physical Education 24, U.C.L.A.

PHYSICS

1—General Physics: Mechanics of Solids. *3 units credit.*

Prerequisite: high school physics or Physics 8; Mathematics 7B to be taken in advance or concurrently.

Lecture and demonstration, 3 hours; laboratory, 2 hours.

Physics 1-2-3-4 constitute a four-course sequence in general physics designed for physics, chemistry, and engineering majors. It is recommended for majors in astronomy and mathematics.

Emphasis is on Newton's laws of motion, equilibrium conditions, elasticity, and concepts of work and energy.

Parallels Physics 1A, U.C.L.A.

2—General Physics: Mechanics of Fluids and Heat. *3 units credit.*

Prerequisite: Physics 1; Mathematics 8A to be taken in advance or concurrently.

Lecture and demonstration, 3 hours; laboratory, 2 hours.

Topics studied include mechanics of fluids, temperature scales, thermal expansion, calorimetry, properties of gases, fusion and vaporization, and introduction to thermodyamics.

Parallels Physics 1B, U.C.L.A.

3—General Physics: Electricity and Magnetism. *3 units credit.*

Prerequisite: Physics 1 or 6; Mathematics 8A to be taken in advance or concurrently.

Lecture and demonstration, 3 hours; laboratory, 2 hours.

Includes such topics as electrostatics, basic direct and alternating current theory, electrochemistry, electromagnetism, electromagnetic induction, electrical measuring instruments.

Parallels Physics 1C, U.C.L.A.

4—General Physics: Light and Sound. *3 units credit.*

Prerequisite: Physics 1 or 6; Mathematics 8A to be taken in advance or concurrently.

Lecture and demonstration, 3 hours; laboratory, 2 hours.

Topics included are wave motion, production and properties of sound waves, photometry, reflection and refraction, optical instruments, interference and diffraction, dispersion, spectra and color, and radiant energy.

Parallels Physics 1D, U.C.L.A.

6-7—General Physics: A two-semester subject. *4 units credit each semester.*

Prerequisites: Three years of high school mathematics or Mathematics 50, 63, and 1; current enrollment in Mathematics 3, unless previously taken, is strongly recommended.

Lecture and demonstration, 4 hours; laboratory, 2 hours.

This course is a survey of the whole field of physics. Physics 6 includes topics in mechanics, heat, and sound. Physics 7 covers topics in light, electricity and magnetism; and modern physics, including atomic physics and electronics.

Parallels Physics 2A-2B, U.C.L.A.

8—General Physics. *3 units credit.*

Prerequisites: Elementary algebra and plane geometry in high school, or Mathematics 50 and 63.

Lecture, 3 hours.

An introductory survey course for students who have not had physics in high school. It is designed primarily for liberal arts students and for those desiring a background for more advanced courses in physics.

Emphasis is placed on a qualitative knowledge of fundamental physical laws and principles and their applications. Quantitative problem solving is held to a minimum.

Formerly 4 units credit as a laboratory course.

Covers the content of Physics 10, U.C.L.A.

11—Electronics Fundamentals. *3 units credit.*

Prerequisite: Two years of high school algebra; high school physics recommended.

This course introduces the physical principles necessary for an understanding of radio circuits. Vacuum tube, rectifier, filter and radio-circuit theory is presented.

12—Advanced Electronics Fundamentals. *4 units credit.*

Prerequisite: Physics 11 or equivalent.

Lecture and demonstration, 3 hours; laboratory, 2 hours.

More advanced topics such as frequency modulation, discriminators, noise limiters, clipping circuits, multivibrators are discussed.

PHYSIOLOGY

1—Human Physiology. *3 units credit.*

Prerequisite: high school chemistry or Chemistry 3.

Lecture, 2 hours; laboratory, 3 hours.

An introductory course covering the functions of the organ systems. Laboratory tests of muscle reactions and other physiologic processes. Required for nursing majors.

Parallels Zoology 36, U.C.L.A.

POLICE SCIENCE

1—Police Administration I. *2 units credit.*

A survey of police administration, organization, and functions; records, personnel, public relations, executive control, and communications.

2—Police Administration II. *2 units credit.*

A survey of crime prevention, traffic control, scientific criminal investigation, maintenance and operation functions.

3—California Penal Code I. *2 units credit.*

An intensive course in the history, organization and content of the California Penal Code.

4—California Penal Code II. *2 units credit.*

An intensive study and interpretation of sections of the California Penal Code in constant use by police officers.

5—Organization of Municipal Government. *2 units credit.*

A study of the development of the Los Angeles Municipal Code; code provisions and interpretations of concern to police officers; and the interrelationship of police department, city attorney and municipal courts.

6—Criminal Evidence. *2 units credit.*

Open only to those students enrolled in the Police Curriculum, or with permission of the instructor.

A study of the kinds, degrees, rules of evidence and the preservation of criminal evidence for the purpose of use in court.

7—Police Reporting. *2 units credit.*

Methods and procedures of writing and interpreting the numerous types of reports required in police work. Consideration is given to the oral and written evidence presented in court.

8—Criminal Investigation. *2 units credit.*

Prerequisite: Police Science 1, 2 and 6.

Methods and procedures used in the investigation of crimes, sources of information, recognition, evaluation and preservation of evidence; preliminary and follow-up investigations.

9—Juvenile Procedures. *2 units credit.*

Survey of delinquency in modern society, basic causal factors and conditions, treatment and prevention. Conditioning factors in juvenile delinquency are fully reviewed.

10—Criminal Identification and Fingerprinting Classification. *3 units credit.*

Intensive survey in fingerprinting and other physical means of identification. It includes the taking of fingerprints, their classification, methods of preserving fingerprint evidence. Time will be devoted to laboratory work.

11—Forensic Chemistry. *4 units credit.*

Prerequisite: Police Science 10.

Collection, preservation and interpretation of physical evidence found in connection with crime. Covers identification of blood, fibers, hair, narcotics, poisons, tool marks, tire marks, use of muroscope and spectrographic analysis.

12—Traffic Laws and Enforcement. *2 units credit.*

Development of traffic codes, California Vehicle code; provisions in other codes relating to operation of motor vehicles; elements of the various offenses; citation and arrest rights, duties, procedures; accident investigation; principles of safety.

POLITICAL SCIENCE

1—Introduction to Government. *3 units credit.*

Not open to students who have credit in Political Science 10.

The principles and problems of government with special attention given to the structure and functioning of our federal system.

Parallels Political Science 1, U.C.L.A.

2—Introduction to Government. *3 units credit.*

A study in comparative government with special attention given to the British Commonwealth of Nations and other selected governments.

Parallels Political Science 2, U.C.L.A.

7—International Relations. *3 units credit.*

A study of the United Nations and its antecedents in the quest for peaceable solutions of international problems. Attention will be given to the curren diplomatic crisis and questions.

10—American Political Institutions. *2 units credit.*

Meets the California State requirement in Constitutional Government for junior college graduation. May be offered in satisfaction of the Constitution requirement.

A study of the formation and development of our national, state and municipal governments—executives, legislatures, judiciaries, citizenship and suffrage, the party system, local governmental institutions. The presentation and development of ideals exemplifying the principles to which we give loyalty in our form of government.

60—Principles of Leadership.

This course is designed to train student-body officers to assume leadership and responsibility in school affairs. Specific training is given in principles and administration of parliamentary law, extra-curricular activities, including budgetary procedure, finances, requisitions and related problems. Every other week time is devoted to business meetings, while specific instruction is offered on alternate weeks.

PSYCHOLOGY

10—Orientation. *1 unit credit.*

A required course for Alpha students. A course planned to assist the new student to make a successful adjustment to college.

21—Introduction to Psychology. *3 units credit.*

This course offers a scientific approach to principles of human behavior; growth and development of personality; covers such topics as feeling, emotion, intelligence, motivation, learning, thinking, heredity and environment; study and work efficiency; individual differences; attitudes and group relations.

Parallels Psychology 1A, U.C.L.A.

22—Elementary Physiological Psychology. *3 units credit.*

Prerequisite: Psychology 21.

This course offers a detailed consideration of the functional and anatomical aspects of the nervous system in order to interpret behavior in terms of physiological processes; covers such topics as muscles and glands as response mechanisms, as well as the structure and functions of sense organs. Emphasis is given to recent experimental studies and research in the field of physiological psychology.

Parellels Psychology 1B, U.C.L.A.

23—Personal and Social Adjustment. *3 units credit.*

This course is designed to give the student a survey of fundamental psychological principles and their application to problems encountered in college and later life. Emphasis is placed on mental hygiene, improvement of one's personality, dynamics of adjustment and maladjustment, development of effective study habits, emotional maturity, vocational planning. Slides, films, and a variety of psychological tests will supplement the lectures.

Parallels Psychology 33, U.C.L.A.

24—Applied Psychology. *3 units credit.*

This course offers the student an understanding of psychological principles as applied to everyday living and working. Emphasis is given to psychology in its relation to business, industry, law, medicine, advertising, criminology and related fields.

Parallels Psychology 3, University of California at Berkeley.

25—CHILD PSYCHOLOGY. *3 units credit.*

A study of the psychological development of the child from infancy to adolescence, with a presentation of the scientific methods used in the observation of the growth in physical, mental, emotional, and social conduct. Emphasis is placed upon the application of these principles in dealing with child behavior.

30—PSYCHOLOGY OF NURSING. *3 units credit.*

A study of the psychology of nursing.

SECRETARIAL SCIENCE

(For other secretarial courses see "Business")

1 & 2—BEGINNING TYPING (Combined course). *4 units credit.*

Ten hours weekly.

An accelerated typing course. Beginning typing the first ten weeks, Typing 2 the second ten weeks.

Fundamental skills in the operation of the typewriter are developed. Speed and accuracy are effected through an emphasis on correct typing techniques. Practical application of skills: business letters, envelopes, carbon copies, tabulations, etc., Work must be of useable quality. This course is designed for those who wish to use typewriting for vocational purposes.

Parallels B.E. 3A, 3B, U.C.L.A.

1—PERSONAL TYPEWRITING. *2 units credit.*

Five hours weekly.

Fundamental skills in the operation of the typewriter are developed. Speed and accuracy are developed through an emphasis on correct typing techniques. Minimum speed to be attained: 25 words per minute. This course is designed for those who wish knowledge of typewriting for personal use only. Practical application of skills: manuscript typing, composition at the typewriter, personal letter writing, etc.

2—TYPING. *2 units credit.*

Five hours weekly.

Prerequisite: Secretarial Science 1 or the ability to type 30 net words a minute as of entrance date.

Speed and accuracy are further developed through continued emphasis on correct typing techniques. Practical application of skills: business letters, envelopes, carbon copies, tabulations, etc. Work must be of mailable quality.

3—TYPING. *2 units credit.*

Five hours weekly.

Prerequisite: Secretarial Science 2 or the ability to type 40 net words a minute as of entrance date.

Speed and accuracy are further developed through continued emphasis on correct typing techniques. Practical applications of skills: invoices, payrolls, special business forms, stencil-cutting, etc. Work must be of useable quality.

4—ADVANCED TYPING. *2 units credit.*

Five hours weekly.

Prerequisite: Secretarial Science 3 or the ability to type 50 net words a minute as of entrance date.

Speed and accuracy are further developed through continued emphasis on correct typing techniques. Practical application of skills: legal documents, manuscripts and special reports.

9A—STENOTYPY (Machine Shorthand). *5 units credit.*

Lecture, five hours; laboratory, five hours.

Prerequisite: Secretarial Science 1 (credit for, or registration in).

Instruction in stenotype theory; development of machine dexterity, fluent reading ability, and the ability to take dictation at 60 to 100 words a minute.

9B—STENOTYPY (Machine Shorthand). *5 units credit.*

Lecture, five hours; laboratory, five hours.

Prerequisites: Secretarial Science 9A. Credit for, or registration in, Secretarial Science 2.

Emphasis is placed on theory, and a skill of 80 to 120 words a minute is developed in dictation.

9C—STENOTYPY TRANSCRIPTION. *5 units credit.*

Five hours weekly.

Prerequisites: Secretarial Science 9A. Credit for, or registration in, Secretarial Science 4.

Development of rapid transcription and a skill in dictation of 80 to 120 words a minute.

10 & 11—STENOGRAPHY (Combined course). *10 units credit.*

Ten hours weekly.

Prerequisites: Credit for, or registration in, Secretarial Science 1 & 2 (Combined course), and Secretarial Science 20.

Simplified Gregg Shorthand. A skill of 60 to 80 words a minute is developed in dictation in Secretarial Science 10 (first ten weeks) and 80 to 100 words a minute in Secretarial Science 11 (second ten weeks). Emphasis is placed on theory and speed building.

Parallels B.E. 4A, 4B, U.C.L.A.

12 & 13—STENOGRAPHY (Combined course). *10 units credit.*

Ten hours weekly.

Prerequisites: Credit for, or registration in, Secretarial Science 3 and 21.

In Secretarial Science 12 (first ten weeks) emphasis is placed on vocabulary building and speed building of 100 to 120 words a minute in dictation, and rapid transcription.

In Secretarial Science 13 (second ten weeks) speed is developed from 120 to 140 words a minute, with stress placed on rapid and accurate transcription. Special attention is given to advanced phrasing and short forms.

11—STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 10, or 50 words per minute in high school shorthand; and credit for, or registration in, Secretarial Science 2.

In this intensive study of Simplified Gregg Shorthand emphasis is placed on theory, and a skill of 80 to 100 words a minute is developed in dictation.

12—STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 11, or 80 words per minute in high school shorthand; and credit for, or registration in, Secretarial Science 3.

Emphasis is placed on vocabulary building, speed of 100 to 120 words a minute in dictation, and rapid transcription.

13—STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 12, or 100 words per minute in high school shorthand; and credit for, or registration in, Secretarial Science 4.

Speed is developed in dictation from 120 to 140 words a minute, with stress placed on rapid and accurate transcription. Special attention is given to advanced phrasing and short forms.

14—STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 13, or 120 words per minute in high school shorthand; and credit for, or registration in, Secretarial Science 4.

Speed is developed in dictation from 130 to 160 words per minute, with stress placed on rapid and accurate transcription of congressional type dictation.

15—MEDICAL STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 13 and 4, or equivalents.

A basic medical vocabulary in shorthand is developed. Training is given in pronunciation, syllabication, spelling, and definition of medical terminology. Case histories and other material are dictated.

16—LEGAL STENOGRAPHY. *5 units credit.*

Prerequisites: Secretarial Science 13 and 4, or equivalents.

Training is offered in development of legal shorthand vocabulary, correct technique in handling legal forms, and preparation of pleadings from dictation.

19—SHORTHAND TRANSCRIPTION. *5 units credit.*

Prerequisites: Credit for, or registration in, Secretarial Science 3 and 12, or high school equivalent.

Emphasis is placed on office type dictation with rapid and accurate transcription—mailable transcripts, complete with carbon copies, envelopes, enclosures. This course includes the English fundamentals that commonly are used in business transcription—spelling, punctuation and sentence structure.

20—FUNDAMENTALS OF BUSINESS ENGLISH. *2 units credit.*

Two hours weekly.

Required for all incoming shorthand and stenotype students. Takes the place of English 1 for one-year Secretarial Science majors.

This course offers thorough training in the mechanics of English: spelling, punctuation, sentence structure, word usage, modern business language, and business vocabulary. Effective development of the English communication skills necessary for the production of accurate and mailable transcripts and business speech.

21—BUSINESS CORRESPONDENCE. *3 units credit.*

Three hours weekly.

Required for all shorthand and stenotype students.

A course designed to achieve effective communication in English for the transaction of business. Development of letter-writing principles and technique; enrichment of general vocabulary and stress on the business vocabulary; practical application of English in business speech, and practice in the technique of dictating.

This course may be presented by secretarial science majors in satisfaction of three units of the English graduation requirement.

23—SECRETARIAL PRACTICE. *3 units credit.*

Prerequisite: Secretarial Science 2 and 11, or permission of instructor.

Lecture, 2 hours; laboratory, 2 hours.

Study of secretarial duties and requirements; development of skill in mimeographing, duplicating, filing, operation of transcription machines, taking individual dictation, and general office duties, use of electric typewriters, vari-typer, office machines and devices.

The course includes personality development; training in telephone technique, in meeting the public, in office ethics; discussion of relations between employer and employee, and between employees; preparation for interviewing and job finding.

24ABC—EDUCATIONAL SECRETARYSHIP. *3 units credit each semester.*

Prerequisite: Permission of the instruction.

A study of the many functions performed in the office of a school, including systems of registration, methods of record keeping, devising of forms, methods of filing, telephone service, mail service, mimeograph service, library, textbook, equipment, and supply services.

26—BUSINESS PSYCHOLOGY. *2 units credit.*

Two hours weekly.

Psychological problems of businessmen; problems confronting personnel managers; problems in consumer contacts; problems of the worker; development of personality for choosing the vocation, business employment tests, problems of ability, of relations with other workers, of employee fatigue, training, promotions, and accidents.

30ABC—BUSINESS MACHINE PRACTICE. *1 unit credit each semester.*

Two hours a week.

Instruction and practice on adding and calculating machines, duplicating, voice transcription, posting, bookkeeping, and addressing machines.

31ABC—Calculating Machine Practice. *2 units credit each semester.*

Five hours a week.

Instruction and practice are given in mathematical processes on key-driven calculating machines such as the Burroughs and Comptometer. Speed is developed to 60 problems per hour, minimum, at completion of 31C.

32ABC—Directed Office Experience. *4 units credit each semester.*

The student performs work in offices of cooperating local business organizations sufficient to give him a minimum of 15 hours a week. Student is paid at the prevailing rate of pay and is supervised on the job by the college instructor.

SOCIAL SCIENCE

Courses exclusive of history which meet the social science requirement for the College of Letters and Science at U.C.L.A. may be chosen from the following list:

Anthropology 2
Economics 1
Political Science 1 and 2
Geography 2
Psychology 21
Sociology 1

SOCIOLOGY

1—Introductory Sociology. *3 units credit.*

This introductory course acquaints the student with the field of sociology. Study is made of the origins, development, and functioning of major social institutions, and of related social problems in a changing society. This course may be considered as a unit in itself for those who do not care to continue in this field of study.

Acceptable for credit, U.C.L.A.

2—Introductory Sociology. *3 units credit.*

Prerequisite: Sociology 1.

A continued and more intensive study of society, social problems, and social institutions.

Sociology 1 and 2 together cover the content of Sociology 3, U.C.L.A.

15—Marriage and Family Life. *3 units credit.*

This course deals with the relationship between the various members of the family and the effect these have on the development of each individual. It helps the student to understand all problems involved in best human relationships in the home.

Open to men and women.

SPANISH

1—ELEMENTARY SPANISH. *4 units credit.*

Essentials of grammar; reading of easy texts. Emphasis on correct pronunciation and oral and written Spanish. This course corresponds to the first two years of high school Spanish. General outline of the main trends of Hispanic culture.

Parallels Spanish 1, U.C.L.A.

2—ELEMENTARY SPANISH. *4 units credit.*

Prerequisite: Spanish 1 or two years of high school Spanish.

Continuation of basic grammar principles. Added emphasis placed on spoken language. Further study of Spanish and Spanish-American civilization.

Parallels Spanish 2, U.C.L.A.

3—INTERMEDIATE SPANISH. *4 units credit.*

Prerequisite: Spanish 2 or three years of high school Spanish.

A review of Spanish grammar with special emphasis upon idiomatic construction. Intensive and extensive reading. Discussion, in Spanish, of Spanish and Spanish-American life and problems.

Parallels Spanish 3, U.C.L.A.

4—INTERMEDIATE SPANISH. *4 units credit.*

Prerequisite: Spanish 3 or four years of high school Spanish.

This course stresses the intelligent reading and oral discussion of modern Spanish prose, poetry and dialogue. Training also is given in composition, grammar, and vocabulary building.

Parallels Spanish 4, U.C.L.A.

8AB—CONVERSATIONAL SPANISH. A two-semester subject. *1 unit credit each semester.*

Prerequisite: Spanish 2 or three years of high school Spanish or special permission of the instructor.

This course offers practical conversational material based on everyday experiences and current events. Classes meet twice a week.

This course is not open to Spanish-speaking students.

42AB—SPANISH CIVILIZATION. *2 units credit each semester.*

A study of the origins, growth and development of Spanish culture in the various fields. Lectures in English, readings in Spanish or English. Some knowledge of Spanish desirable. Required of major students in Spanish.

Parallels Spanish 42 AB, U.C.L.A.

51-52—BEGINNING SPANISH CONVERSATION. *2 units credit each semester.*

Essentials of Spanish conversation for travel, business or pleasure. No previous work in Spanish is required.

This course is not open to Spanish-speaking students.

SPEECH

1—Fundamentals of Speech: Expression and Interpretation. *3 units credit.*

Prerequisite: Speech 7 or permission of the instructor.

Elementary speech training specific to individual needs based upon diagnostic study of individual differences and abilities; designed espcially for students who have had no previous training in speech. Emphasis is laid upon those problems which apply to all kinds of personal adjustment, how to gain ease in everyday business and social relationships.

Parallels Speech 1B, U.C.L.A. (Previously paralleled 1A, U.C.L.A.)

2—Fundamentals of Speech: Voice and Diction. *3 units credit.*

An intensive drill course on the phonetic aspects of speech training with special attention to variation in the tone elements. Enunciation, pronunciation, complete oral sentence structure, and force in expression are stressed. Required of all speech majors and those intending to enter dramatic or radio fields.

Parallels Speech 3A, U.C.L.A. (Previously paralleled 1B, U.C.L.A.)

3—Oral Interpretation. *3 units credit.*

Prerequisite: Speech 2 or permission of the instructor.

Special emphasis is placed on the selection and cutting of worthwhile literary material and on reading aloud and silently with intelligence. Choral speaking will be studied to emphasize cooperative oral expression.

Parallels Speech 3B, U.C.L.A.

7—Public Speaking, *3 units credit.*

Training is offered in practical extempore speech of everyday life with public speaking treated as heightened conversation. Emphasis is placed on critical thinking and deductive and inductive reasoning. Speech material is outlined to develop clearness; speaking exercises are used to develop poise; book reviews are written to broaden the student's thought background. Social and community problems are discussed to develop awareness and the necessity for clear and logical thinking.

Parallels Speech 1A, U.C.L.A.

THEATER ARTS

1A—Acting Fundamentals. *3 units credit.*

Open to all students.

Required of all theater arts majors.

Prerequisite: Students required to take laboratory 3A concurrently.

Basic analysis and practice of coordination between vocal and bodily expression. Character portrayal studies in stage positions and body positions; physical and mental aspects of elemental behavior in sustaining a role; effect of mood in tempo and rhythm.

Parallels Theater Arts 2A, U.C.L.A.

1B—Acting Fundamentals. *3 units credit.*

Required of all theater arts majors.

Prerequisite: 1A or permission of the instructor. Students required to take laboratory 3B concurrently.

Parallels Theater Arts 2B, U.C.L.A.

2—History of the Theater. (Offered 1st semester only.) *2 units credit.*

A theater appreciation subject.

This is a non-technical course designed to give the student a general knowledge and appreciation of the legitimate stage, with emphasis on American theatrical production and literature. Lectures and class discussions will be supplemented by attendance at stage performances.

Open to all students.

Parallels Theater Arts 7, U.C.L.A.

3ABCD—Elementary Theater Laboratory. A four-semester subject. *2 units credit each semester.*

Practical experience is given under faculty supervision in the interpretation and staging of one-act and full length plays. The major purpose of the course is to stress development of serious attitudes, fundamental knowledges, and sane principles of lasting quality.

Parallels Theater Arts 28ABCD, U.C.L.A.

5AB—Advanced Acting. A two-semester subject. *3 units credit each semester.*

Prerequisite: 1A, 1B, 2, 3AB.

Required of all theater arts majors. Student must take laboratory 3C concurrently.

The principles of creative acting and direction are applied by the student through actual performance on the stage. This course is a continuation of Theater Arts 1A-1B.

6—Theater Direction and Production. (Offered 2nd semester only.) *3 units credit.*

Prerequisite: 1A, 1B, 2, 3ABC, Delta standing.

Designed for students whose major interest is directing. Actual practice in directing students in one-act plays will be given. A study is made of the principles of play production, including script selections, financing, contracting for properties and personnel, casting, theater organization and management, budgeting, advertising and publicity.

7—Radio Speech and Acting. *3 units credit.*

Required of all radio majors. Open to others.

This course is designed to stress the fundamentals of good speech with special emphasis on the development of vocal personality and experience in the use of the microphone. It also gives training in the fundamentals of radio acting. Line interpretation, character analysis and development, radio announcing, and newscasting.

$1.00 laboratory fee is charged to defray the cost of voice recording and class material.

8AB—Radio Drama Workshop. *3 units credit each semester.*

Prerequisite: Theater Arts. 7.

Laboratory, 6 hours.

This is an elementary course in the production of radio dramas, placing special emphasis on casting, acting, directing, and sound.

$1.50 laboratory fee is charged to defray the cost of scripts, recordings, special effects.

9AB—Radio Drama Workshop. *3 units credit each semester.*

Prerequisite: Theater Arts 8.

Laboratory, 6 hours.

This is an advanced course in the production of radio dramas, placing special emphasis on script writing, casting, acting, directing, and sound.

$1.50 laboratory fee is charged to defray the cost of scripts, recordings, special effects.

10—Plays and Evaluation of the Theater. (Offered 2nd semester only.) *2 units credit.* Open to all students.

By lectures and reading assignments a survey is made of the literature of the stage, past and present.

11ABCD—Theater Arts Workshop. *1 unit credit each semester.*

Acting instruction under faculty supervision.

Parallels Theater Arts 29AB, U.C.L.A.

21A—The Factual Film. *2 units credit.*

A course designed for those interested in the film as a medium of communication. Consideration is given to the various categories of the factual film—educational, commercial, and documentary. Also considered are problems of writing, photographing, editing, and producing the factual film.

21BCD—The Fictional Film. *2 units credit each semester.*

A course designed for those interested in the film as an art form. Consideration is given to the historical development of the film in the United States—the film as literature, film acting, film direction, and cinematography. An attempt is made to establish valid criteria for motion picture appreciation.

50—Summer Laboratory. *2 units credit.*

Summer laboratory workshop under faculty instruction in the direction and production of plays.

ZOOLOGY

1—General Zoology. *5 units credit.*

Prerequisite: High school chemistry or Chemistry 3.

Intended for students of Gamma standing.

Lecture, 3 hours; laboratory, 6 hours; one required field trip.

Survey of invertebrate animals. Laboratory devoted to microscopic study and dissection.

Parallels Zoology 1A, U.C.L.A.

2—General Zoology. *5 units credit.*

Prerequisite: Grade C or better in Zoology 1, or permission of instructor.

Lecture, 3 hours; laboratory, 6 hours.

Study of vertebrate animals, followed by a survey of human anatomy, physiology, genetics, and embryology.

Parallels Zoology 1B, U.C.L.A.

15—Elementary Anatomy and Physiology. *5 units credit.*

Prerequisite: High school chemistry or Chemistry 3.

Lecture, 3 hours; laboratory, 5 hours.

An introduction to the facts and principles of human anatomy and physiology. A semester course for the general student. Required for physical education, nursing, and physical therapy majors.

Parallels Zoology 15, U.C.L.A.

PART IV
APPENDIX

GRADUATION REQUIREMENTS
LOS ANGELES VALLEY JUNIOR COLLEGE

Los Angeles Valley Junior College will award the Associate in Arts Degree to all students who complete satisfactorily a two-year curriculum of sixty units and sixty grade points (C average) including the following:

1. English 1 ..... 3 units
2. English 2, Speech 1, 3 or 7, Journalism 1, Secretarial Science 21, or English 29 ..... 3 units
3. American History and Institutions ..... 4 to 6 units
   (Any two courses from the following list:
   History 5, 6, 10*, 11, 12
   Political Science 1**, 10)
4. Physical Education ..... 2 units
5. Health 10 ..... 2 units
6. Major*** ..... 20 units
7. Electives ..... 24 to 26 units

Total Units 60
Grade Points 60

NOTE

1. A minimum of 15 units must be completed at Valley Junior College.
2. A student must be enrolled at Valley Junior College during the academic year in which the degree is granted.

UNIVERSITY REQUIREMENTS
UNIVERSITY OF CALIFORNIA AT LOS ANGELES

A. Admission on the Basis of the High School Record.
   1. Graduation from an accredited high school.
   2. Completion of the following high school courses.

      (a) History ..... 1 unit† —This requirement must be satisfied by 1 unit of United States history or 1 unit of United States history and civics.

      (b) English ..... 3 units —These may consist of any six semesters that give preparation in written and oral expression and in the reading and study of literature.

* Not open to students who have credit in History 11 or 12.
** Not open to students who have credit in Political Science 10.
*** Does not apply to university transfer students.
† 1 unit is the equivalent of one year of high school work.

(c) Mathematics .... 2 units —These must consist of two semesters of elementary or advanced algebra, and two semesters of plane geometry, or solid geometry and trigonometry.

(d) Science ..... 1 unit —This may consist of a year course in one field of science, namely, biology, botany, chemistry, physics, physical science, physiology or zoology. The science selected must be an advanced (eleventh or twelfth grade) laboratory science, and the two semesters must be in the same subject field.

(e) Foreign Language .... 2 units —These must be in one language.

(f) Advanced course chosen from one of the following:

1 (or 2) units —1. Mathematics, a total of 1 unit (second-year algebra, ½ or 1 unit; solid geometry, ½ unit; trigonometry, ½ unit).

2. Foreign language, either 1 additional unit in the same foreign language offered under (e), or 2 units of a different foreign language.

3. Science, 1 unit of either chemistry or physics in addition to the science offered under (d) above.

3. Courses in the (a) to (f) list taken in the ninth grade need show passing marks only; courses in the (a) to (f) list taken in the tenth, eleventh, and twelfth grades must be passed with a B average. Courses in which a grade of D is received will not be counted in reckoning the required scholarship or in satisfaction of the subject requirements.

4. For exceptions to the plan outlined above, consult the U.C.L.A. catalog.

B. Removal of High School Deficiencies.

1. By college courses of appropriate content and amount completed with satisfactory scholarship in junior colleges, or state colleges of California, or in any other approved college. The applicant must include in his program courses acceptable for removing his subject shortages and present:

(a) A minimum of 15 units of college transfer courses with a grade point average of 1.5, or

(b) 30 units or more of college transfer courses with a grade point average of 1.3, or

(c) A C average in 60 units or more of work which must include all published requirements for junior standing in the College or School in the University for which application is made.

(d) For students with only one or two deficiencies, a six-week summer session at an approved junior college may be used to make up shortages.

GENERAL REQUIREMENTS FOR JUNIOR STANDING COLLEGE OF LETTERS AND SCIENCE, U.C.L.A.

1. Completion of 60 units of college transfer work with an average grade of C or better.
2. Fulfill requirements a, b, c, d, and at least three out of the six requirements under e, f, and g below.
3. Fulfill lower division requirements of the major:
   a. *General University Requirements*
      1. *Subject A*—Students completing English 1 at Valley Junior College with a grade of "C" or higher satisfy this requirement.
      2. *Military Science and Tactics or Naval Science (men).* Students completing 60 units of transfer work in a junior college are exempt from this requirement.
      3. *Physical Education,* 2 units.
   b. *Foreign Language*

      At least 16 units in not more than two languages. The first two years of high school work in a foreign language will be counted as four units of this requirement; the third and fourth years of high school work in the same language will be counted as four units each. Only high school work of grade "C" or better may be counted. No credit is given for less than two years of high school work in a foreign language.* If a new language is begun at college level, course 2 with its prerequisites must be completed.
   c. *Matriculation Mathematics*

      Elementary algebra and plane geometry. Students should fulfill these requirements in high school; those who have not done so may take Mathematics 50 and Mathematics 63 at Valley College, but on transfer no unit credit for advanced standing will be allowed.
   d. *English Composition*

      Three units of English composition with grade of "C" or better.

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*Any student who because of lapse of time or other circumstances feels unable to continue successfully a language begun in high school may consult the department of the language concerned regarding the possibility of repeating all or part of the work for credit. Such credit would count on the 60 units required for the degree of Associate in Arts and on the 120 units required for the bachelor's degree; but credit is not allowed *toward the required 16 units in foreign language* for both the high school and college work thus duplicated.

e. *Natural Sciences*

(1) At least 5 units in physical science chosen from the following list:

Astronomy 1
Chemistry 1, 3
Geography 1
Geology 1, 2, 6
Mathematics 1, 3, 21, 7A, 7B, 8A, 8B
Physics 1, 2, 3, 4, 6, 7,8

(2) At least 5 units in biological science, chosen from the following list:

Anthropology 1
Bacteriology 1
Biology 1, 2
Botany 1
Psychology 22
Zoology 1, 2

f. *Social Sciences*

(1) A six-unit year course in history chosen from the following:

History 1-2, 5-6, 11-12

(2) At least six units in social sciences exclusive of history and including courses in at least two subjects, chosen from the following:

Anthropology 2
Economics 1
Geography 2
Political Science 1, 2
Psychology 21
Sociology 1

g. *Humanities.* Two of the following three groups:

(1) *Literature*—4 units
English 3-4 or 9-10

(2) *Philosophy*—a six-unit lower division course
Philosophy 1-2

(3) *The Arts*—4 units
Art 1A, 1B
Music 3, 4, 18, 19

AUTHORIZED EXEMPTIONS AND DEFERMENTS

The following exemptions and deferments have been authorized in the fields of concentration listed below. Requirements deferred to the upper division must be completed before receipt of the bachelor's degree.

Major in Chemistry

Exemptions:

Either (f-1), or (f-2); and either (e-2), or one of the two required groups under (g).

Deferments:

Requirements (b), (e), (f), and (g) may be postponed to the upper division.

Major in Geology

Exemptions:

1. Requirement (f-2); and
2. One of the two groups required under (g).

Deferments:

Requirements (b) and (g).

Major in Mathematics

Exemption:

Requirement (f-1).

Deferments:

Requirements (e-2) or (f-2), and both of the groups required under (g).

Premedical Curriculum

Exemptions:

1. (f-1) or (f-2); and
2. One of the two groups required under (g).

DEPARTMENTAL REQUIREMENTS FOR JUNIOR STANDING COLLEGE OF LETTERS AND SCIENCE, U.C.L.A.

In addition to the general requirements under the College of Letters and Science, each department has its own lower division requirements. Listed below are the majors and those courses offered at Valley Junior College which fulfill the departmental requirements.

Majors	*Departmental Requirements*
Anthropology*	Anthropology 1, 2 Sociology 1, 2 5-6 units chosen from psychology, geology, geography, history, biology or zoology
Astronomy*	Physics 1, 2, 3, 4 Mathematics 1, 3, 21, 7A, 7B, 8A, 8B
Bacteriology*	Bacteriology 1 Chemistry 1, 2, 5, 7 Modern foreign language Physics 6, 7 Zoology 1, 2

*Consult U.C.L.A. catalog for complete departmental requirements.

Botany*	Botany 1, 2 Chemistry 1, 2 (In special phases: Geology 2; Physics 6, 7; Zoology 1, 2)
Business Administration	Business 1, 2 Economics 1, 2 Mathematics 2 (Prerequisite is Mathematics 1 or 21) Foreign language, Course 2 Year course in history (History 11-12 recommended) Social Science elective exclusive of history, 3 units One laboratory science
Chemistry	Chemistry 1, 2, 5, 6 (grade C or better) English 1, 2 Physics 1, 3, 4 Mathematics 21, 7A, 7B, 8A, 8B Reading knowledge of German (German 1, 2)
Economics*	Business 1 Economics 1, 2
English	English 1, 2, 9, 10 Average grade of C or better in English History 3, 4
Geography*	Geography 1, 2 Geology 1, 6
Geology*	Geology 1, 2, 6 Chemistry 1, 2 Geology 9 or Engineering 1 Mathematics 1 or 21, 3, 7A Physics 6, 7 Reading knowledge of any modern foreign language
History	History 1, 2 or History 3, 4 History 11, 12 or 5, 6
International Relations	Political Science 1, 2 History 1-2 or 3-4 or 5-6 Economics 1, 2 Geography 1, 2
Journalism	A.B. or B.S. degree with a grade point average of 1.5

*Consult U.C.L.A. catalog for complete departmental requirements.

Mathematics	Mathematics 3 (if not taken in high school) Mathematics 21, 7A, 7B, 8A, 8B (with an average grade of C or better)
Medical Technology	See Bacteriology
Physics	Physics 1, 2, 3, 4 (with average grade of C or better) Chemistry 1, 2 Mathematics 21, 7A, 7B, 8A, 8B
Political Science	Political Science 1, 2 3 units selected from Economics 1, 2, History 1, 2, 3, 4, 5, 6, 11, 12, Anthropology 1, 2, Philosophy 1, 2 or Geography 1, 2
Psychology	Psychology 21, 22
Public Service*	Business 1, 2 Economics 1, 2 Political Science 1, 2 Speech 1 or 2 In certain fields: Psychology 21, 22 History, 6 units
Sociology*	Anthropology 1, 2 Sociology 1, 2 Psychology 21, 22
Spanish*	Spanish 1, 2, 3, 4, 42A, 42B (average grade of C or better) English 1, 2
Speech	Speech 1, 2, 3, 7 English 1, 2, 9, 10 History 11-12 or 5-6 Psychology 21, 22
Zoology	Zoology 1, 2 Chemistry 1, 2 Physics 6, 7

*Consult U.C.L.A. catalog for complete departmental requirements.

GENERAL REQUIREMENTS FOR JUNIOR STANDING COLLEGE OF APPLIED ARTS, U.C.L.A.

Students who expect to transfer to U.C.L.A. to major in Apparel Design, Apparel Merchandising, Art, Dance, Business Education, Home Economics, Music, Physical Education, and Theater Arts should enroll in the College of Applied Arts. The requirements are:

1. Completion of 60 units of college transfer work with an average grade of C or better.

2. Fulfill requirements a, b, c, d

3. Fulfill lower division requirements of the major
   a. *General University Requirements:*
      1. *Subject A*—Students completing English 1 at Valley Junior College with a grade of "C" or higher satisfy this requirement.
      2. *Military Science and Tactics or Naval Science (men).* Students completing 60 units of transfer work in a junior college are exempt from this requirement.
      3. *Physical Education,* 2 units.
   b. Either:
      1. *Foreign Language*

         At least 16 units in one foreign language. High school work with a grade of "C" or better and not duplicated by college work† will be counted as follows: four units for the first two years together, and four units each for the third and fourth years.

      Or:

      2. *Natural Science*

         At least 12 units of natural sciences chosen from the following list, including one laboratory science. Courses marked with an asterisk (*) satisfy laboratory requirements.

Anatomy 1*	Chemistry 1*, 2*, 3*, 5*, 6*, 7
Anthropology 1	Geography 1
Astronomy 1	Geology 1, 2, 6*
Bacteriology 1*	Physics 1*, 2*, 3*, 4*, 6*, 7*, 8
Biology 1, 2	Zoology 1*, 2*, 15*
Botany 1*	

      Or:

      3. A combination of *Foreign Language and Natural Science* distributed as follows:

         Foreign Language: At least 16 units in not more than two languages. High school work with grades of "C" or better and not duplicated by college work may be counted as four units for the first two years together, and four units each

† See note on page 123.

for the third and fourth years. If a new language is begun in college, it may not apply on this requirement unless course 2 is completed.

Natural Science: At least nine units chosen from the natural science list set forth above, of which not less than one unit must be in laboratory work. Three units of mathematics not offered in satisfaction of (d) may be substituted for three units of this requirement.

c. *Matriculation Mathematics*

Elementary algebra and plane geometry. Students should fulfill these requirements in high school; those who have not done so may take Mathematics 50 and Mathematics 63 at Valley College, but on transfer no unit credit for advanced standing is allowed.

d. *Three Year-Courses*

A year course chosen from three of the following groups, at least one of which must be chosen from group 1, 2, or 3:

1. English 1-2, 9-10, Speech 1-2, or English 1- Speech 1
2. Foreign Language additional to (b) above. No high school work may be counted.
3. Mathematics chosen from Mathematics 1, 3, 7A, 7B, 8A, 8B, 21
4. Social Science chosen from Anthropology 1-2†; Economics 1-2; History 1-2, 5-6, 11-12; Geography 1-2†; Political Science 1-2
5. Psychology 21, and 22 or 23
6. Philosophy 1-2
7. Art 1A-1B, 2A-2B; Music 1-2, 3-4, 16-17, 18-19
(Acceptable only when Art or Music is not the major)

DEPARTMENTAL REQUIREMENTS FOR JUNIOR STANDING

COLLEGE OF APPLIED ARTS, U.C.L.A.

In addition to the general requirements under the College of Applied Arts, each department has its own lower division requirements. Listed below are the majors and those courses offered at Valley Junior College which fulfill the departmental requirements.

Majors	*Departmental Requirements*
Art*	Art 1A, 1B, 2A, 2B, 4A, 4B, 7A, 7B, 24 or 44, and courses approved by the departmental adviser.

† May be used on the natural science requirement or on the social science requirement, but not on both.

*Consult the U.C.L.A. catalog for complete departmental requirements.

Business Education*	Business 1, 2 Secretarial Science 1, 2, 10, 11 Economics 1,2 Geography 5 Psychology 21, and 22 or 23 Speech 1 English 1 3 units of Mathematics or Natural Science
Home Economics* One of the following options:	
General Home Economics	Art 2A, 21A; Chemistry 3
Home Economics Teacher	Art 2A, 21A; Chemistry 3; Psychology 21, 22; Zoology 15
Foods and Nutrition	Bacteriology 1; Business 1; Chemistry 3; Economics 1, 2; English 1, 2 or Speech 1, 2; Psychology 21, 22; Zoology 15
Food Technology	Bacteriology 1; Chemistry 1, 2, 7; Mathematics 3, 21, 7A, 7B Physics 6, 7; Zoology 15
Clothing and Textiles	Art 2A, 2B, 7A, 21A; Chemistry 3; Economics 1, 2
Music	Music 1, 2, 3, 4, 5, 6, 16, 17, and some ability in piano playing
Physical Education*	Anatomy 1 Chemistry 3 Zoology 15 Men: Physical Education 24 ABCD, 30, Health 23 Women: Physical Education 25 ABCD
Theater Arts* One of the following options:	
Major in Theater Arts	Theater Arts 1A, 2, 3ABCD English 1, 2, 3, 4,
Major in Theater Arts-English	Theater Arts 1A, 1B, 3ABCD, 29A English 1, 2, 9, 10
Major in Radio	Theater Arts 1A, 2, 3ABCD English 1, 2, 3, 4

*Consult the U.C.L.A. catalog for complete departmental requirements.

PRE-PROFESSIONAL REQUIREMENTS
UNIVERSITY OF CALIFORNIA

Listed below are the courses that should be included in completing the lower division requirements for professional curricula. In addition to the departmental requirements, the general requirements of the school or college must be met. The school or college is indicated in parentheses after each major.

Majors	*Departmental Requirements*
Architecture (1st year only) (School of Architecture, Berkeley)	History 11,12 Mathematics 21, 7A, 7B Physics 6, 7 Architecture 1, 2 Art 4A
Dental Hygienist (College of Letters and Science, U.C.L.A.)	Chemistry 1, 2, 7 Zoology 1, 2 English 1, 2 or Speech 1, 2
Dentistry (College of Letters and Science, U.C.L.A.)	Chemistry 1, 2, 7, 8 Physics 6, 7 Zoology 1, 2 English 1, 2 or Speech 1, 2 Trigonometry if not completed in high school Three groups of one year courses (see U.C.L.A. catalog)
Engineering (College of Engineering, U.C.L.A.)	*General Requirements:* Engineering 1, 3, 8, 17, 18, 48 Mathematics 21, 7A, 7B, 8A, 8B English 1 Chemistry 1, 2 Physics 1, 3, 4 (Physics 2 recommended) History 11-12 or 5-6 Biological Science, 3 units Electives, 5 units (foreign language, social science, or humanities) *Specific Requirements* For Civil Engineering: Engineering 2, Geology 1, 6 For Mechanical Engineering: Engineering 15
Forestry* (School of Forestry, Berkeley)	Botany 1 Chemistry 1, 7 Engineering 1 Economics 1, 2 Geology 1 Mathematics 7A, 7B Physics 6, 7 Biology 1 Speech, English, or Philosophy, 6 units

*Consult University of California catalog for complete lower division requirements.

Law (College of Letters and Science, U.C.L.A.)	There is no prescribed pre-legal curriculum.
Library Science (College of Letters and Science, U.C.L.A.)	One year in each of two of the following languages: French, German, Italian, Russian, Spanish
Medicine* (College of Letters and Science, U.C.L.A.)	Chemistry 1, 2, 5, 7, 8 English 1, 2 Mathematics 1, 3 (if not taken in high school) Physics 6, 7 Zoology 1, 2 French or German through Course 2
Nursing* (School of Nursing, first year only, U.C.L.A.)	Psychology 21, 22 Zoology 15 Anatomy 1 Chemistry 3 Physics 8 English 1, 2 History 11, 12 Bacteriology 1 Anthropology 2
Optometry (College of Applied Arts, U.C.L.A.)	Physics 6, 7 Chemistry 1, 2, 7 Psychology 21 and 22 or 23 Mathematics 1 or 21, 7A Bacteriology 1 Speech 1, 2 or English 1, 2 Foreign language, 1 year Zoology 15 Anatomy 1
Pharmacy (first year only, College of Pharmacy, San Francisco)	Botany 1 Chemistry 1, 2 English 1, 2 or Speech 1, 2 Mathematics 1, 3, 21 One year course chosen from mathematics, social science, philosophy, or the fine arts
Public Health* (College of Applied Arts, U.C.L.A.)	*General Requirements:* Chemistry 1 Bacteriology 1 Zoology 15 Psychology 21, 23 Mathematics 1 or 21 At least 6 units from Anthropology 1, 2, Geography 1, 2 or Geology 1, 6

*Consult University of California catalog for complete lower division requirements.

One of the following options:	*Specific Requirements:*
Sanitation	Chemistry 2, Physics 6, 7, English 1 or Speech 1
Public Health Statistics	English 1, 2; Speech 1, 2; Mathematics 7A, 7B; Anatomy 1
Pre-Administration	Economics 1, 2; Political Science 1; 6 units from English 1, 2, Speech 1, 2
Social Welfare*	Anthropology 1, 2 Biology 1, 2 Economics 1, 2 Psychology 21, 22 Political Science 1, 2 Sociology 1, 2
Teaching (General Elementary or Kindergarten-Primary, College of Letters and Science, U.C.L.A.)	English 1, 2 History 11-12 or 5-6 Geography 1, 2 Psychology 21, 22 Foreign language Physical science, 3 units, chosen from astronomy, chemistry, mathematics or physics Biological science, 3 units Art 42 Music 1 Physical Education 23 Mathematics 38 (for General Elementary only)
Veterinary Science* (School of Veterinary Medicine, Davis)	English 1, 2 or Speech 1 Chemistry 1, 2, 5, 7 Zoology 1, 2 Physics 6, 7 Electives selected from social sciences, foreign languages, philosophy, psychology, and literature

*Consult University of California catalog for complete lower division requirements.

GENERAL REQUIREMENTS FOR JUNIOR STANDING UNIVERSITY OF CALIFORNIA—BERKELEY

COLLEGE OF LETTERS AND SCIENCE

1. Completion of 60 units of college transfer work with an average grade of C or better.

2. Fulfill requirements a, b, c, d, e listed below

3. Fulfill lower division requirements of the major.

a. *General University Requirements*

1. *Subject A*—Students completing English 1 at Valley Junior College with grade of "C" or higher satisfy this requirement.

2. *Military Science and Tactics (men).* Students completing 60 units of transfer work in junior college are exempt from this requirement.

3. *Physical Education,* 2 units

b. *Foreign Languages*

At least 16 units in not more than two languages. The first two years of high school work in a foreign language will be counted as four units of this requirement; the third and fourth years of high school work in the same language will be counted as four units each. Only high school work of grade "C" or better may be counted. No credit is given for less than two years of high school work in a foreign language.* If a new language is begun on college level, course 2 with its prerequisites must be completed.

c. *Matriculation Mathematics*

Elementary Algebra and Plane Geometry.

d. *Natural Science*

At least 12 units chosen from the following list, including one laboratory science. Courses marked with an asterisk (*) satisfy laboratory requirements.

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*Any student who because of lapse of time or other circumstances feels unable to continue successfully a language begun in high school may consult the department of the language concerned regarding the possibility of repeating all or a part of the work for credit. Such credit would count on the 60 units required for the degree of Associate in Arts and on the 120 units required for the bachelor's degree; but credit is not allowed *toward the required 16 units in foreign language* for both the high school and college work thus duplicated.

One year high school physics*, 3 units
One year high school chemistry*, 3 units
Anthropology 1
Astronomy 1
Bacteriology 1*
Biology 1
Botany 1*
Chemistry 1*, 2*, 5*,7*
Geography 1
Geology 1, 2, 6*
Physics 1*, 2* 3*, 4* 6*, 7*, 8
Zoology 1*, 2*

e. A sequence (of 5 or 6 units) in subjects of college level in each of four of the following six groups:

Group I—English and Speech

English 1-2, Speech 1-2

Group II—Foreign Languages

Foreign language (additional to b). This may be satisfied by one college course of not less than 4 units, or by 2 units of high school Latin.
French 1, 2, 3, 4,
German 1, 2, 3, 4
Spanish 1, 2, 3, 4

Group III—Mathematics

Any two of the following courses:
Mathematics 3 or high school trigonometry
Mathematics 2, 21, 7A, or 7B

Group IV—Social Sciences

Economics 1-2
Geography 1†-2
History 1-2, 5-6, 11-12
Political Science 1-2
Psychology 21, and 22 or 23
Sociology 1-2

Group V—Philosophy

Philosophy 1-2

Group VI—Fine Arts and Literature

Art 1A, 1B
English 3, 4, 9, 10
Music 18, 19

†Geography 1 may be used on the natural science requirement or on the social science requirement, but not on both.

GENERAL REQUIREMENTS FOR JUNIOR STANDING
UNIVERSITY OF CALIFORNIA
SANTA BARBARA COLLEGE

PROGRAM FOR MAJORS IN LIBERAL ARTS

1. *Art,* 4 units
   a. Art 42
   b. Art 1A or 1B

2. *Music,* 4 units
   a. Music 18 or 19
   b. Music 3 or 4

3. *Philosophy,* 6 units
   Philosophy 1-2

4. *Social Sciences,* 12 units
   a. History 11-12
   b. Electives, 6 units

5. *Psychology,* 3 units
   Psychology 21

6. *Science and Mathematics*
   Biology 1-2 and at least 7 additional units from the Physical Sciences.
   Acceptable courses: Chemistry 1, 2, 3; Physics 6, 7, 8; Geology 1.

7. *Foreign Language,* 0 to 12 units.
   The divisional requirement of 12 units in one foreign language may be satisfied in whole or in part in high school. Students who have received credit for three years of a language in high school will be deemed to have fulfilled it. The majority, however, will find it necessary to take at least one college course of four units in order to meet the requirements of the Division or of the major department. It is advisable for students continuing in college a language begun in high school to complete divisional requirements as soon after entrance as possible.

8. *English and Speech,* 12 units
   a. English 1-2
   b. Six additional units from English or Speech

9. *Elementary Algebra,* if not completed in High School

PROGRAM FOR MAJORS IN APPLIED ARTS

1. *English and Speech,* 12 units
   Including English 1-2, Speech 1

2. *Social Science,* 9 units
   Including American History and Institutions

3. *General Psychology,* 3 units
   Psychology 21

4. *Sciences,* 9-10 units
   Biological and physical sciences must be included.

5. *Art and Music,* 4 units
   An appreciation course must be taken in at least one department. Activity courses are allowed in one department.

6. *Controlled electives as required by department,* 5-6 units

7. *Military Science (men),* 6 units
   Students transferring with 48 units advanced standing may substitute electives for this requirement.

8. *Physical Education,* 2 units
   One-half unit activity course per semester.

9. *Mathematics*
   Elementary algebra is required, if not completed in high school.

The remaining lower division units are usually chosen with a specific major in mind.

UNIVERSITY REQUIREMENTS

UNIVERSITY OF SOUTHERN CALIFORNIA

1. Admission on the Basis of the High School Record
   A. Graduation from an acredited high school
   B. Completion of 15 units, including:

1. English	3 units
2. Foreign Language	2 units
3. History or Social Science	1 unit
4. Natural Science with Laboratory	1 unit
5. Algebra	1 unit
6. Geometry	1 unit

   C. Applicant must rank in the upper half of his high school class.

2. Removal of Deficiences
   An applicant may be admitted to U.S.C. by transfer from an accredited college or university, or from an approved junior college under the following conditions:

   A. If the secondary school record of the applicant, supplemented when necessary by subsequent junior college or college work, is acceptable for admission to freshman standing.

   B. If the average scholarship in all college work attempted is not below the grade of C.

GENERAL REQUIREMENTS FOR JUNIOR STANDING UNIVERSITY OF SOUTHERN CALIFORNIA

COLLEGE OF LETTERS, ARTS, AND SCIENCES

The requirements for junior standing are the completion of 60 units acceptable work and a "C" average or better in all college work attempted. It is recommended that a student should complete, if possible, within the 60 units the general requirements listed below.

A. *Art Appreciation or Music Appreciation,* 2 units

Students who transfer with 60 units or more may substitute two units of electives in fine arts or music.

B. *English,* 6 units

English 1-2

C. *Foreign Languages—One foreign language,* 12 units

Each year of foreign language in high school not duplicated by college work will be accepted in fulfillment of three units of this requirement.

D. *General Studies,* 13 units

1. History 1 and 2
2. American Civilization and Institutions—4 units
   History 10, Political Science 10, or History 11-12
3. Three units to be selected from one of the following:
   a. Psychology 21, 23
   b. Philosophy 1

E. *Literature,* 4 units

English 3-4, 9-10, 12

F. *Physical Education,* 6 units

Physical Education activity (4 semesters) 2-4 units
Health 10
Students who transfer 60 units may substitute electives for the 6 unit requirement in physical education.

G. *Sciences,* 11 units

At least one laboratory course must be included. Chemistry and physics in the third or fourth year of high school will each be accepted in partial fulfillment of this requirement, but not for unit credit toward a degree. The choice of sciences should be made from the following list:

Anatomy 1*	Chemistry 1*, 2*, 3*, 5*, 6*, 7, 8*
Astronomy 1	Geology 1, 2, 6*
Bacteriology 1*	Physics 1*, 2*, 3*, 4*, 6*, 7*, 8
Biology 1, 2	Physiology 1*
Botany 1*	Zoology 1*, 2*, 15*

H. *Mathematics*

High school algebra and geometry.

*Laboratory science courses.

PRE-PROFESSIONAL REQUIREMENTS

UNIVERSITY OF SOUTHERN CALIFORNIA

Listed below are the courses that should be included in completing the lower division requirements for professional curricula.

Majors	*Departmental Requirements*
Architecture (1st year only)	Architecture 1, 2 Art 4A English 1, 2 History 1, 2, 10 Mathematics 1, 3 Health 10 Economics 1 or Sociology 1 Physics 6, 7 Political Science 10
Commerce	English 1, 2 Business 1, 2, 5 History 1, 2, 10 Political Science 10 Mathematics 2 Health 10 Economics 1, 2 Law 1, 2 Psychology 21 Geography 5
Dentistry	English 1, 2 Physics 6, 7 Biology 1, 2 or Zoology 1, 2 Chemistry 1, 2, 7, 8
Engineering	*General Requirements* Engineering 3, 12, 17, 48 English 1, 2 History 10 Political Science 10 Psychology 21 Mathematics 3, 21, 7A, 7B, 8A, 8B Physics 1, 2, 3, 4 Chemistry 1, 2
	Specific Requirements
Chemical Engineering:	Chemistry 5, 7, 8
Civil Engineering:	Engineering 1, 2, 15 Economics 1
Electrical Engineering:	Engineering 1, 15 Economics 1
Industrial Engineering:	Business 1 Economics 1 Law 1

	Mechanical Engineering:	Engineering 1, 15
	Petroleum Engineering:	Chemistry 5 Engineering 1 Geology 1, 2, 6
Journalism		English 9, 10
Law		There is no prescribed pre-legal curriculum. B average is required.
Medicine		Chemistry 1, 2, 5, 7, 8 Zoology 1, 2 Physics 6, 7 French or German, 12 units
Pharmacy		Mathematics 1, 3 Chemistry 1, 2 Zoology 1, 2 History 1, 2 Physics 6, 7 Psychology 21 Social Studies Electives, 4 units

LOS ANGELES STATE COLLEGE

ADMISSION TO STATE COLLEGE

In order to be accepted by State College, applicants must have completed at least 54* units of acceptable college courses with a minimum of a C average. No specific pattern of courses is required for admission, but students intending to transfer to State College should plan their program to meet graduation requirements of that institution.

LOWER DIVISION REQUIREMENTS

The lower division requirements at State College consist, in general, of two parts:

The General Education Requirements, which are required of all degree candidates regardless of the proposed field of specialization.

2. The Major Department Requirements, which are part of the student's field of specialization.

These requirements are listed below for the student's use in planning his Junior College program. While the requirements need not all be met in lower division, it is advisable that the student plan his program in order to satisfy many of these requirements in the first two years.

*Students who have completed a minimum of 48 units of college work and have a minimum of a C average may enroll in State College by special permission. For complete details consult your Counselor.

GENERAL EDUCATION REQUIREMENTS

1. *Social Sciences,* 9 units
   a. A course or courses covering American History and Government, the Constitution, and American institutions and ideals. Any two courses from the following list are acceptable:
      History 5, 6, 10*, 11, 12
      Political Science 1**, 10
   b. A course or courses covering the study of world cultures and history or European history and culture. Acceptable courses include:
      History 1, 2, 3, 4
   c. A course or courses covering the study of man in his environment. Acceptable courses include:
      Anthropology 2
      Economics 1, 2
      Geography 2, 5
      Sociology 1, 2
2. *Natural Sciences,* 9 units
   At least one three-unit course from the life sciences and one three-unit course from the physical sciences must be included. Acceptable courses are:
   Life Sciences: Anatomy 1; Biology 1, 2; Botany 1; Physiology 1; Zoology 1, 2, 15.
   Physical Sciences: Astronomy 1; Chemistry 1, 2, 3; Geography 1; Geology 1, 2, 6; Physics 8.
3. *Oral and Written Expression,* 6 units
   At least one three-unit course in oral expression and one three-unit course in written expression. Acceptable courses are:
   Oral Expression: Speech 1, 2, 3, 7
   Written Expression: English 1, 2
4. *Literature and/or Philosophy,* 6 units
   Acceptable courses are:
   Literature: English 9, 10, 23
   Philosophy: Philosophy 1, 2
5. *Fine or Practical Arts,* 3 units
   Acceptable courses are:
   Art 1A, 1B, 2A, 2B, 4A, 4B, 35A, 35B
   Music 1, 2, 3, 10ABCD, 12AB, 14ABCD, 15ABCD, 18, 19
6. *General Psychology,* 3 units
   Psychology 21 is required of all students.

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*Not open to students who have credit in History 11 or 12.
**Not open to students who have credit in Political Science 10.

7. *Physical Education and Hygiene,* 4 units
   Acceptable courses are:
   Physical Education Activities, 2 units
   Health 10, 2 units

8. *Total General Education Requirements*
   Students must complete the specific requirements indicated above to make a total of 45 units from any of the above fields.

REQUIREMENTS IN THE VARIOUS FIELDS OF SPECIALIZATION

Consult the Los Angeles State College catalog for lower division requirements of the department major.

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